

PREPARED FOR

**MILLER BREWING COMPANY  
CONTAINER DIVISION  
FULTON, NEW YORK**

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**VOLUME III  
REMEDIAL INVESTIGATION REPORT**

**ADDENDA AND UPDATES TO  
DRAFT RI APPENDICES  
P, R, S, V AND W**

**MALCOLM  
PIRNIE**

**JULY 1993**

***ADDENDUM TO  
APPENDIX P  
(February 1993)***

***Hydraulic Conductivity  
Results and Graphs***



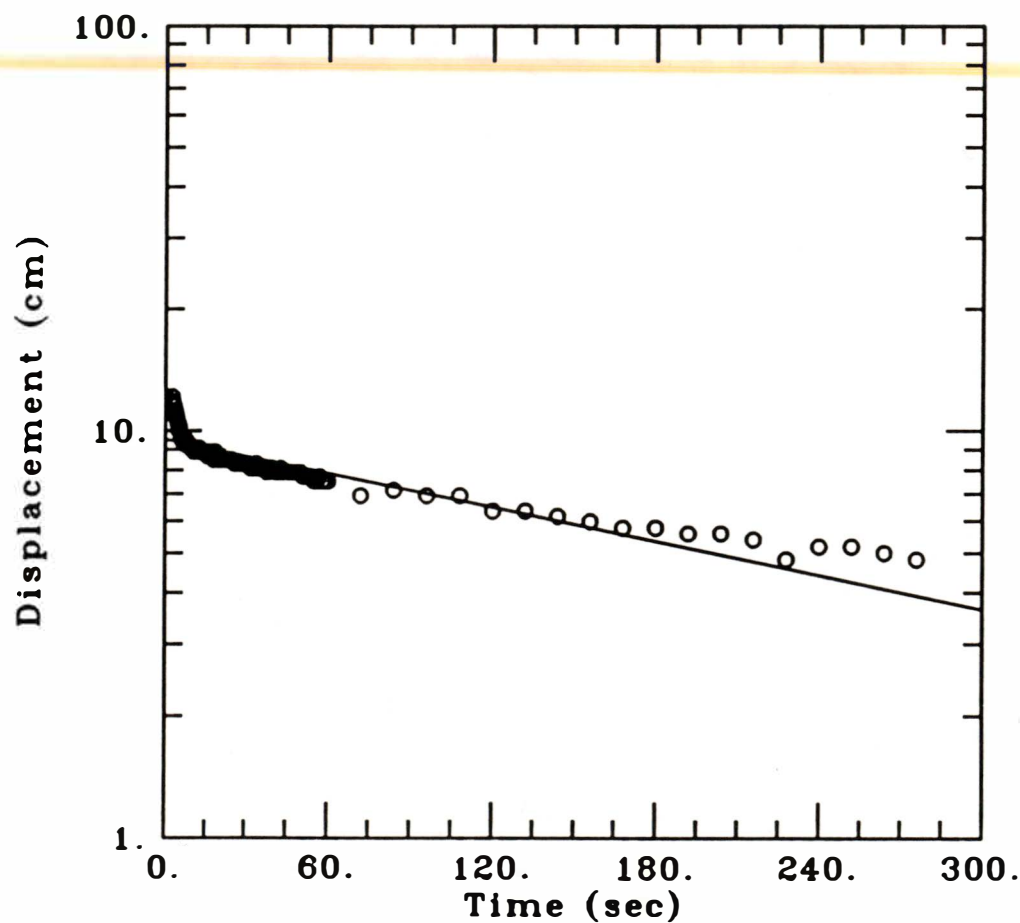
Malcolm Pirnie, Inc.

Client: Miller Container

Project No.: 1028248

Location: Fulton, NY

## MW-12S RISING



### DATA SET:

mw-12sr.dat

01/28/93

### AQUIFER TYPE:

Unconfined

### SOLUTION METHOD:

Bouwer-Rice

### TEST DATE:

Jan. 26, 1993

### OBS. WELL:

MW-12S

### ESTIMATED PARAMETERS:

$K = 6.8633E-05$  cm/sec

$y_0 = 9.542$  cm

### TEST DATA:

$H_0 = 12.13$  cm

$r_c = 2.54$  cm

$r_w = 10.5$  cm

$L = 243.8$  cm

$b = 2468.9$  cm

$H = 128.6$  cm

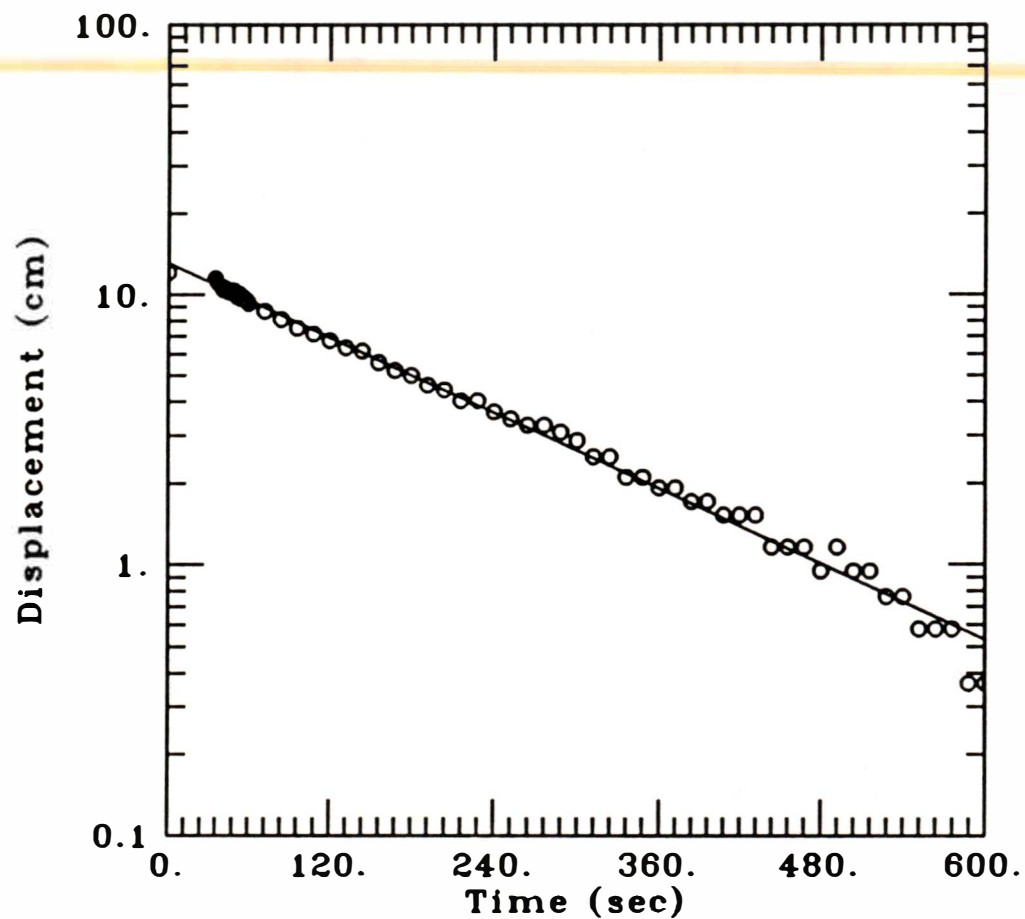
Malcolm Pirnie, Inc.

Client: **Miller Container**

Project No.: **1028248**

Location: **Fulton, NY**

## MW-12S FALLING



### DATA SET:

mw-12sf.dat

01/28/93

### AQUIFER TYPE:

Unconfined

### SOLUTION METHOD:

Bouwer-Rice

### TEST DATE:

Jan. 26, 1993

### OBS. WELL:

MW-12S

### ESTIMATED PARAMETERS:

$K = 0.0001144$  cm/sec

$y_0 = 13.15$  cm

### TEST DATA:

$H_0 = 12.13$  cm

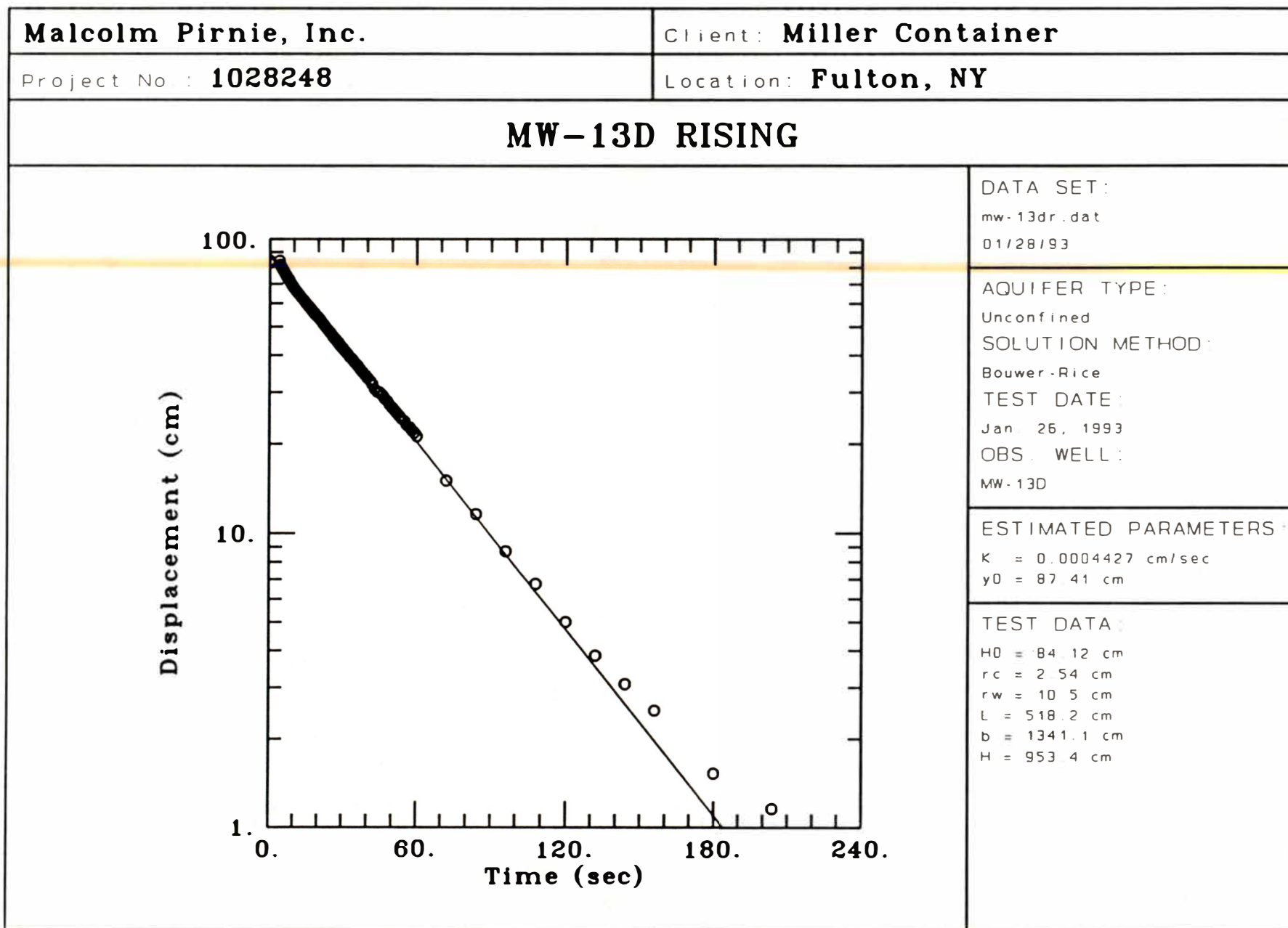
$r_c = 2.54$  cm

$r_w = 10.5$  cm

$L = 243.8$  cm

$b = 2468.9$  cm

$H = 128.6$  cm



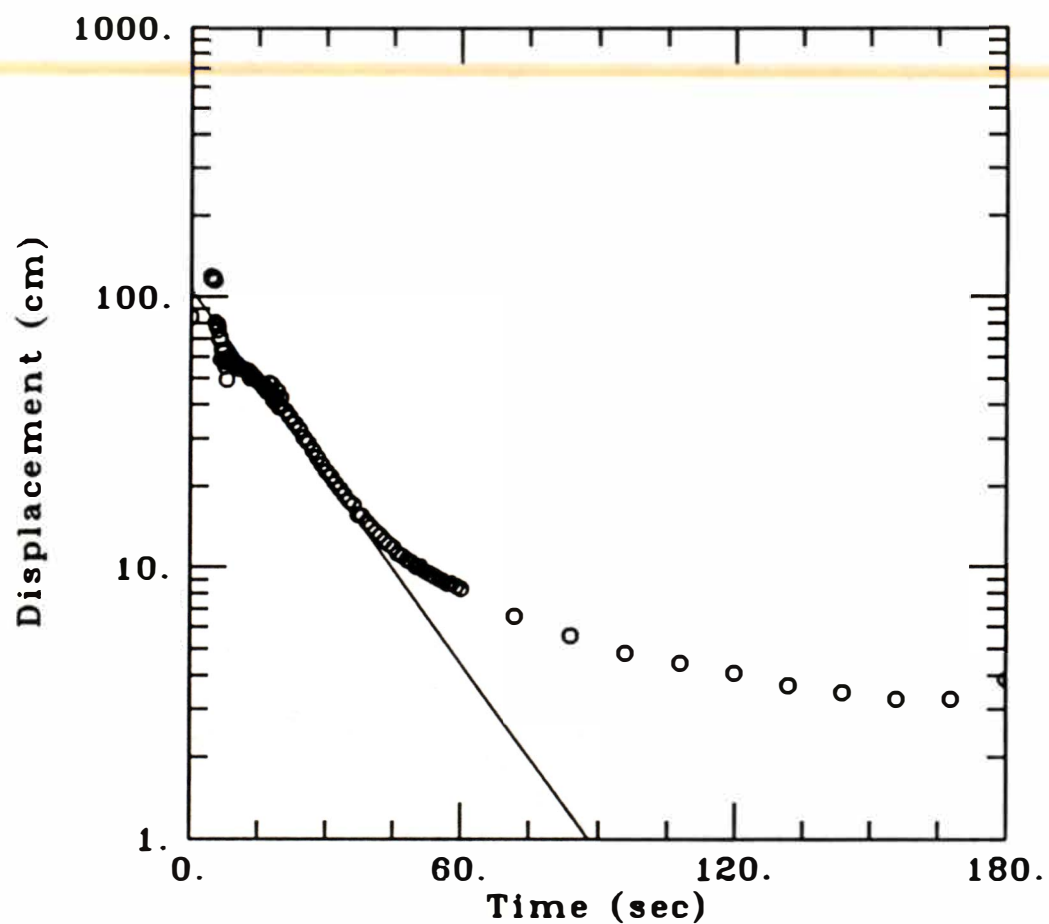
Malcolm Pirnie, Inc.

Client: **Miller Container**

Project No.: **1028248**

Location: **Fulton, NY**

## MW-13D FALLING



DATA SET:

mw-13df.dat

01/28/93

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

TEST DATE:

Jan. 26, 1993

OBS. WELL:

MW-13D

ESTIMATED PARAMETERS:

$K = 0.0009655$  cm/sec

$y_0 = 106.3$  cm

TEST DATA:

$H_0 = 84.12$  cm

$r_c = 2.54$  cm

$r_w = 10.5$  cm

$L = 518.2$  cm

$b = 1341.1$  cm

$H = 953.4$  cm

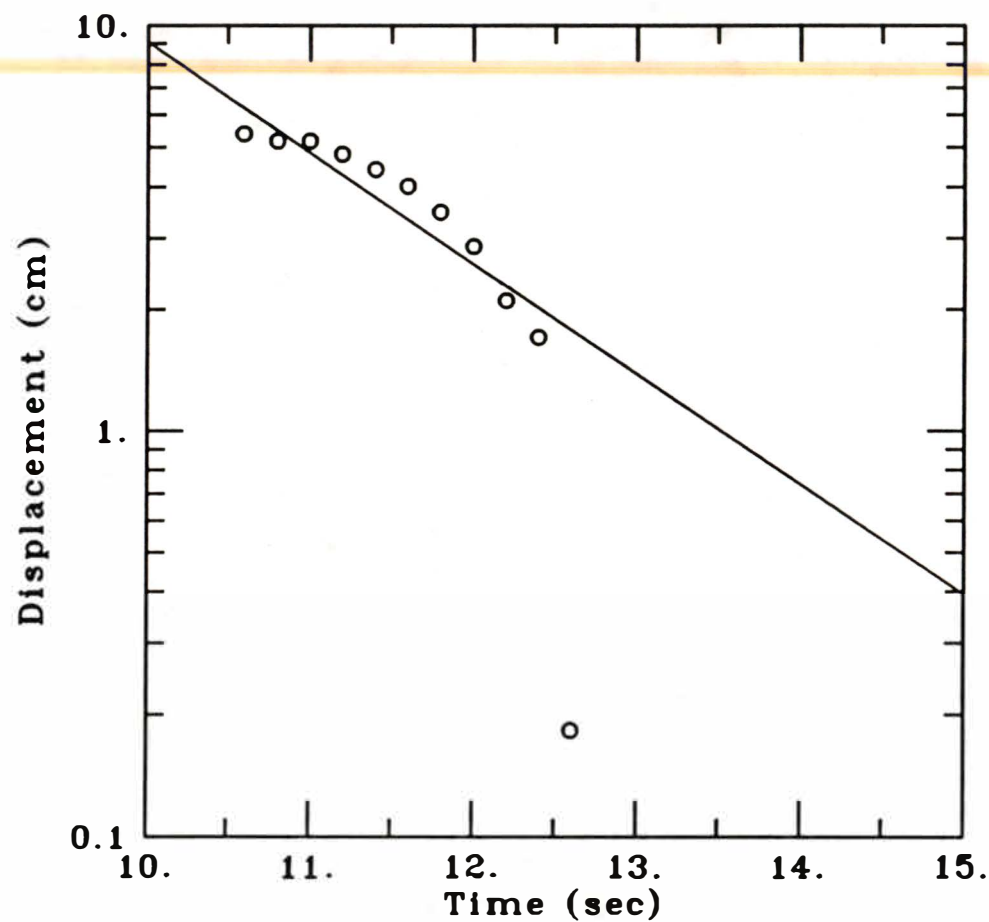
Malcolm Pirnie, Inc.

Client: **Miller Container**

Project No.: **1028248**

Location: **Fulton, NY**

## MW-15D FALLING



### DATA SET:

mw-15df.dat

01/28/93

### AQUIFER TYPE:

Unconfined

### SOLUTION METHOD:

Bouwer-Rice

### TEST DATE:

Jan. 26, 1993

### OBS. WELL:

MW-15D

### ESTIMATED PARAMETERS:

$K = 0.01696$  cm/sec

$y_0 = 4829.3$  cm

### TEST DATA:

$H_0 = 5.39$  cm

$r_c = 2.54$  cm

$r_w = 10.5$  cm

$L = 304.8$  cm

$b = 1301.5$  cm

$H = 776.3$  cm

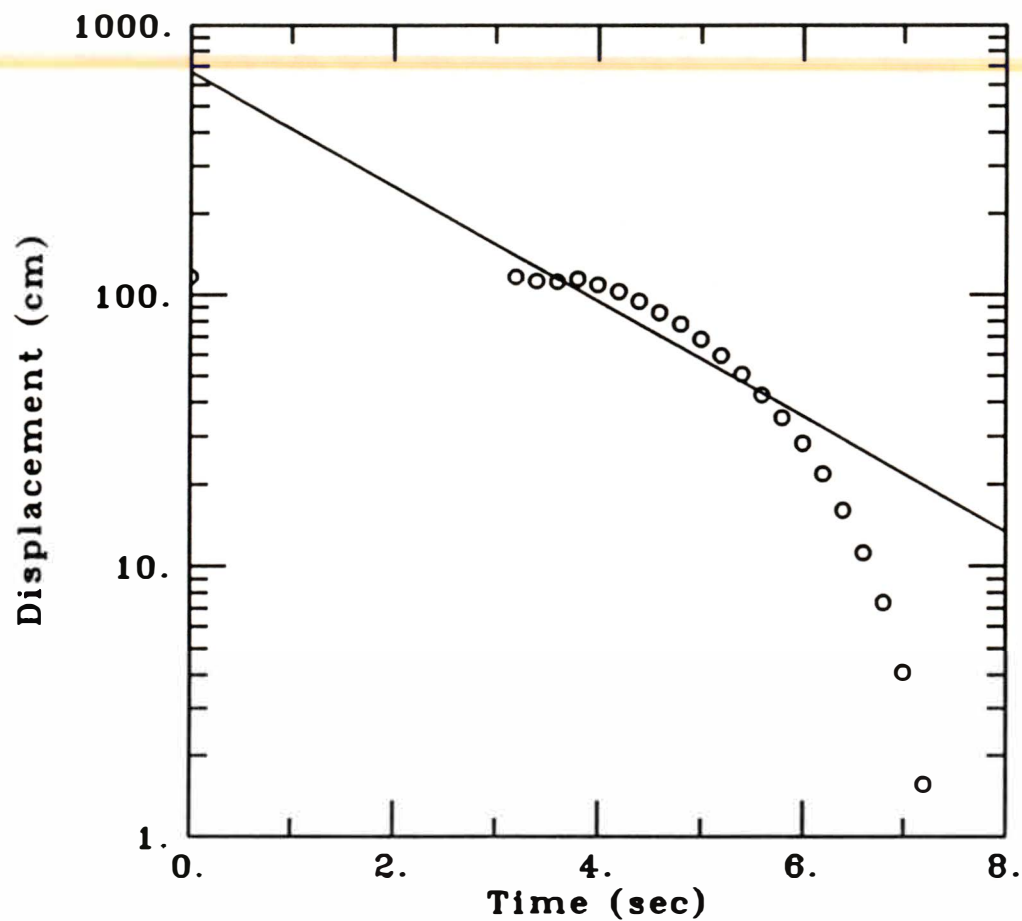
Malcolm Pirnie, Inc.

Client: **Miller Container**

Project No: **1028248**

Location: **Fulton, NY**

## MW-23D RISING



### DATA SET:

mw-23dr.dat  
01/28/93

### AQUIFER TYPE:

Unconfined

### SOLUTION METHOD:

Bouwer-Rice

### TEST DATE:

Jan. 25, 1993

### OBS. WELL:

MW-23D

### ESTIMATED PARAMETERS:

$K = 0.01705$  cm/sec  
 $y0 = 668.6$  cm

### TEST DATA:

$H0 = 116.7$  cm  
 $rc = 2.54$  cm  
 $rw = 10.5$  cm  
 $L = 243.8$  cm  
 $b = 2225$  cm  
 $H = 1578.8$  cm

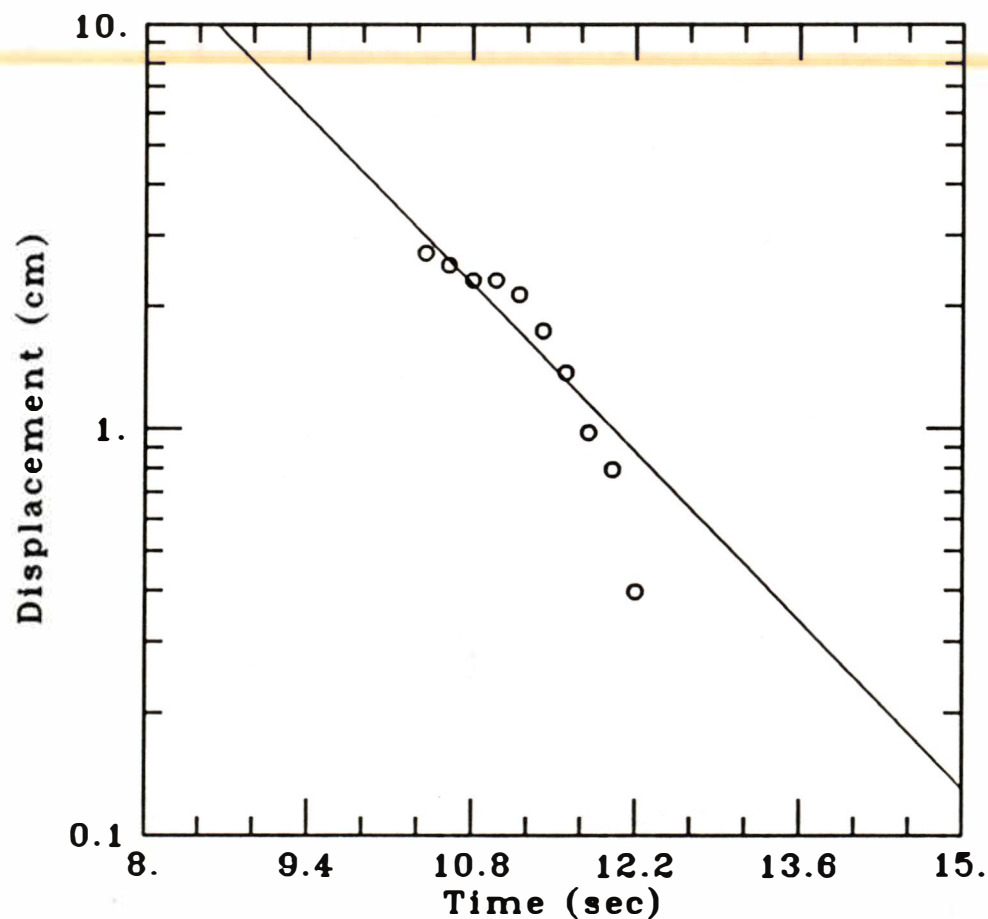
Malcolm Pirnie, Inc.

Client: **Miller Container**

Project No.: **1028248**

Location: **Fulton, NY**

## MW-23D FALLING



### DATA SET:

mw-23df.dat

01/28/93

### AQUIFER TYPE:

Unconfined

### SOLUTION METHOD:

Bouwer-Rice

### TEST DATE:

Jan 25, 1993

### OBS. WELL:

MW-23D

### ESTIMATED PARAMETERS:

$K = 0.02378$  cm/sec

$y_0 = 3565.4$  cm

### TEST DATA:

$H_0 = 94.73$  cm

$r_c = 2.54$  cm

$r_w = 10.5$  cm

$L = 243.8$  cm

$b = 2225$  cm

$H = 1587.7$  cm



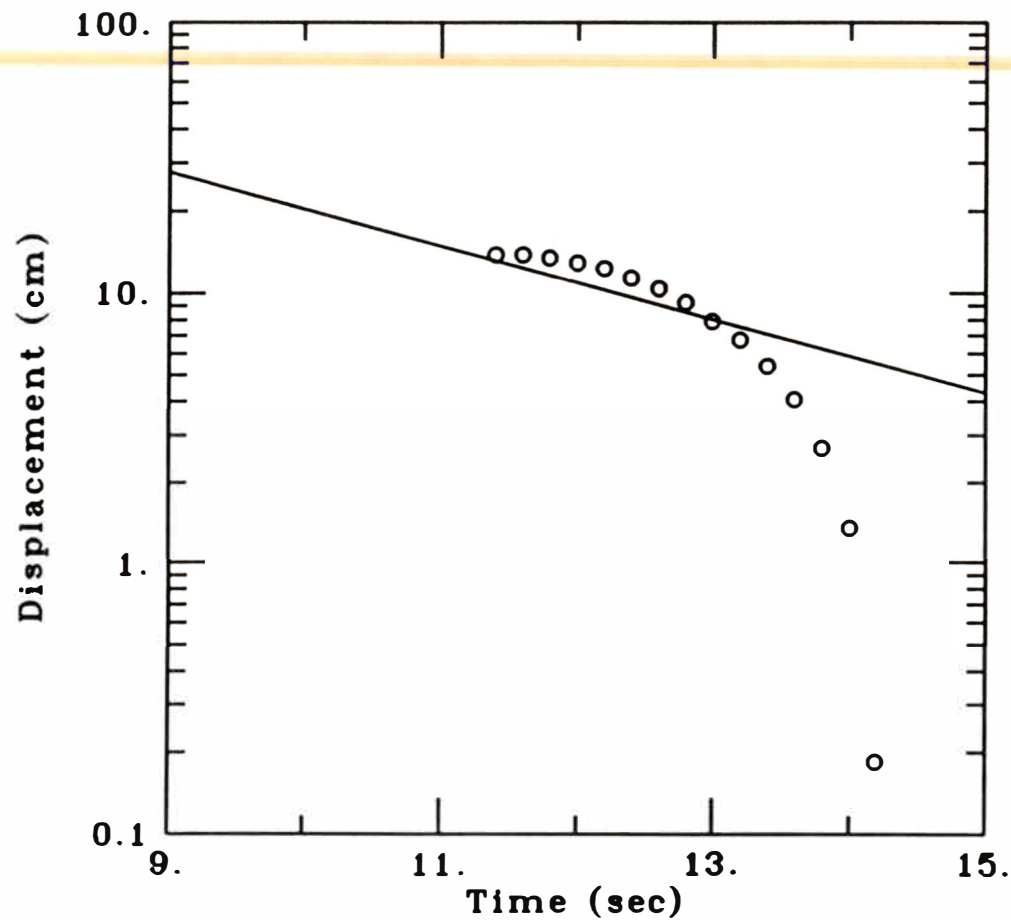
Malcolm Pirnie, Inc.

Client: **Miller Container**

Project No.: **1028248**

Location: **Fulton, NY**

## MW-28D RISING



### DATA SET:

mw-28dr.dat

01/28/93

### AQUIFER TYPE:

Unconfined

### SOLUTION METHOD:

Bouwer-Rice

### TEST DATE:

Jan. 26, 1993

### OBS. WELL:

MW-28D

### ESTIMATED PARAMETERS:

$K = 0.009558$  cm/sec

$y_0 = 457.9$  cm

### TEST DATA:

$H_0 = 13.86$  cm

$r_c = 2.54$  cm

$r_w = 10.5$  cm

$L = 304.8$  cm

$b = 1996.4$  cm

$H = 1696.2$  cm

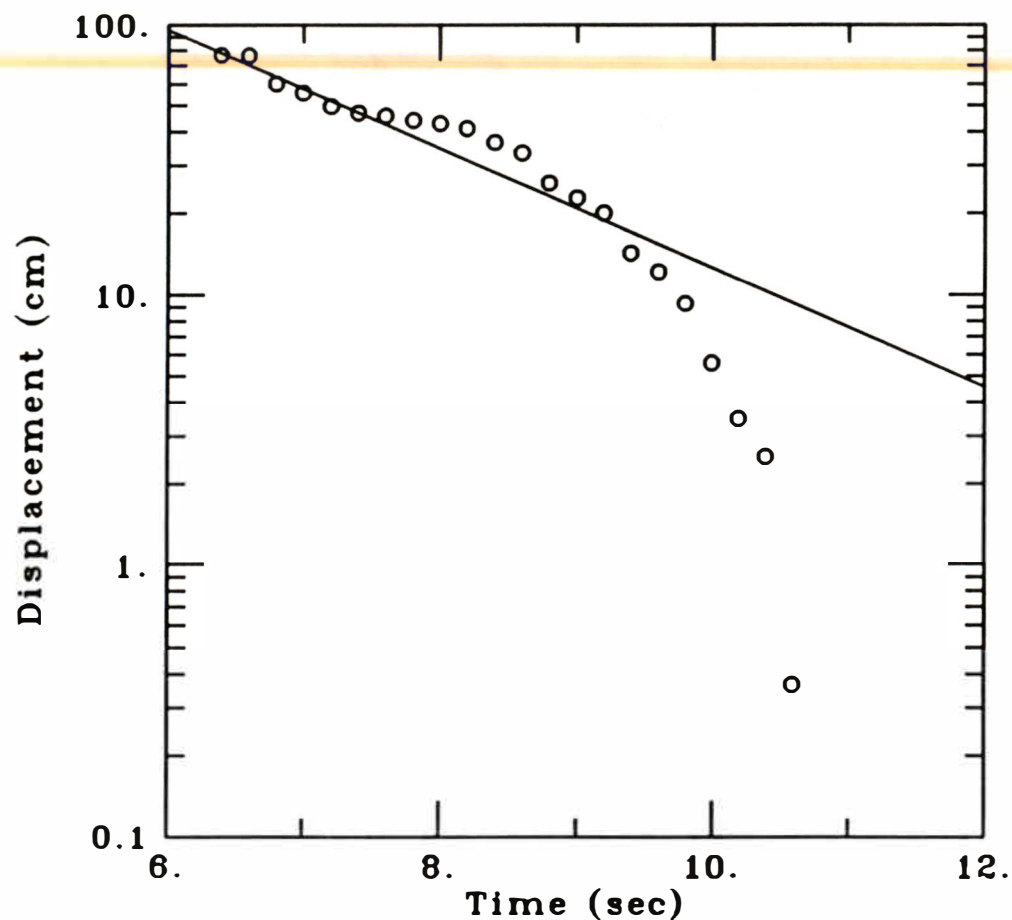
Malcolm Pirnie, Inc.

Client: Miller Container

Project No.: 1028248

Location: Fulton, NY

## MW-28D FALLING



### DATA SET:

mw-28df.dat

01/28/93

### AQUIFER TYPE:

Unconfined

### SOLUTION METHOD:

Bouwer-Rice

### TEST DATE:

Jan. 26, 1993

### OBS. WELL:

MW-28D

### ESTIMATED PARAMETERS:

$K = 0.01556$  cm/sec

$y_0 = 1994.8$  cm

### TEST DATA:

$H_0 = 76.8$  cm

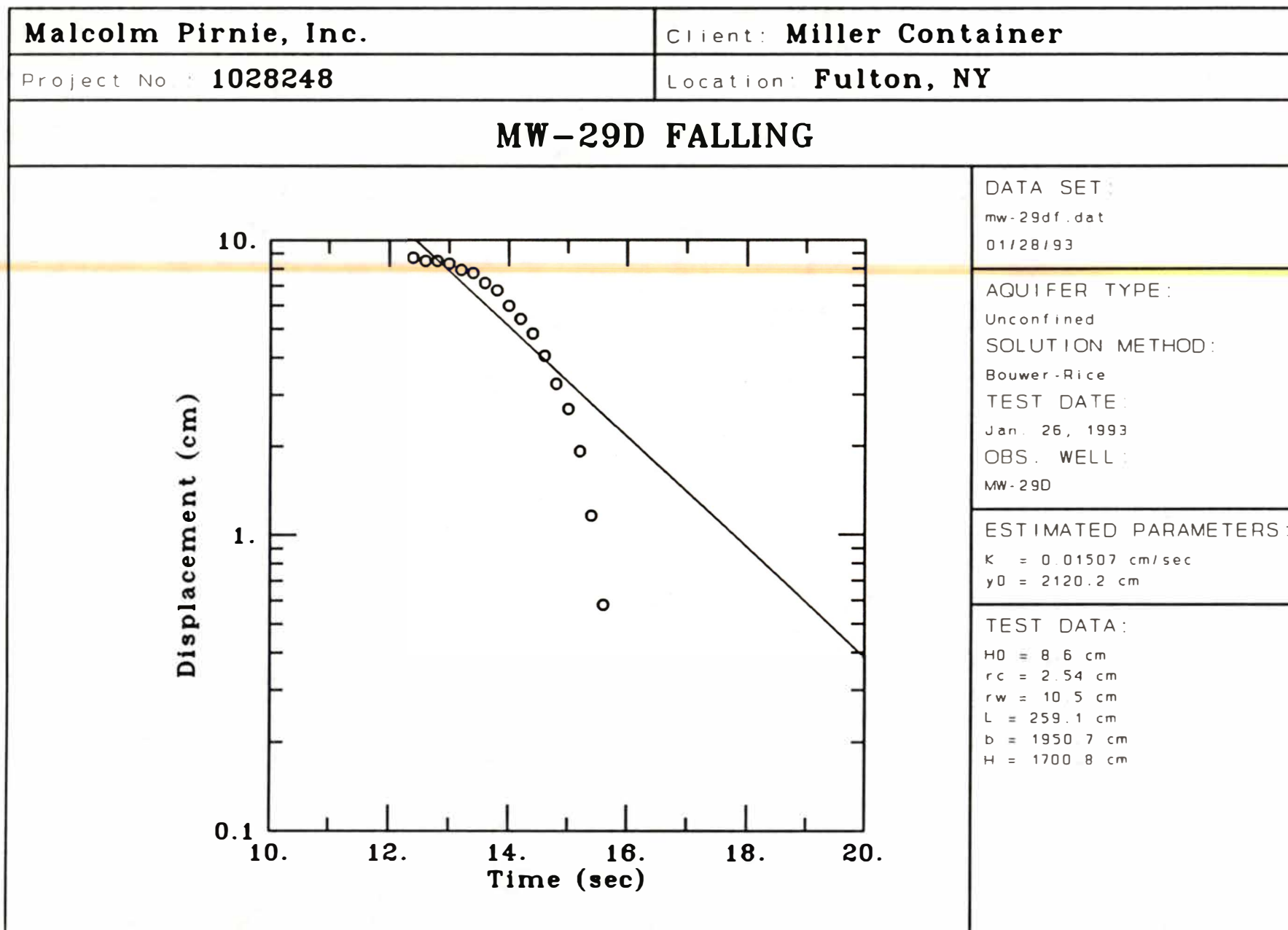
$r_c = 2.54$  cm

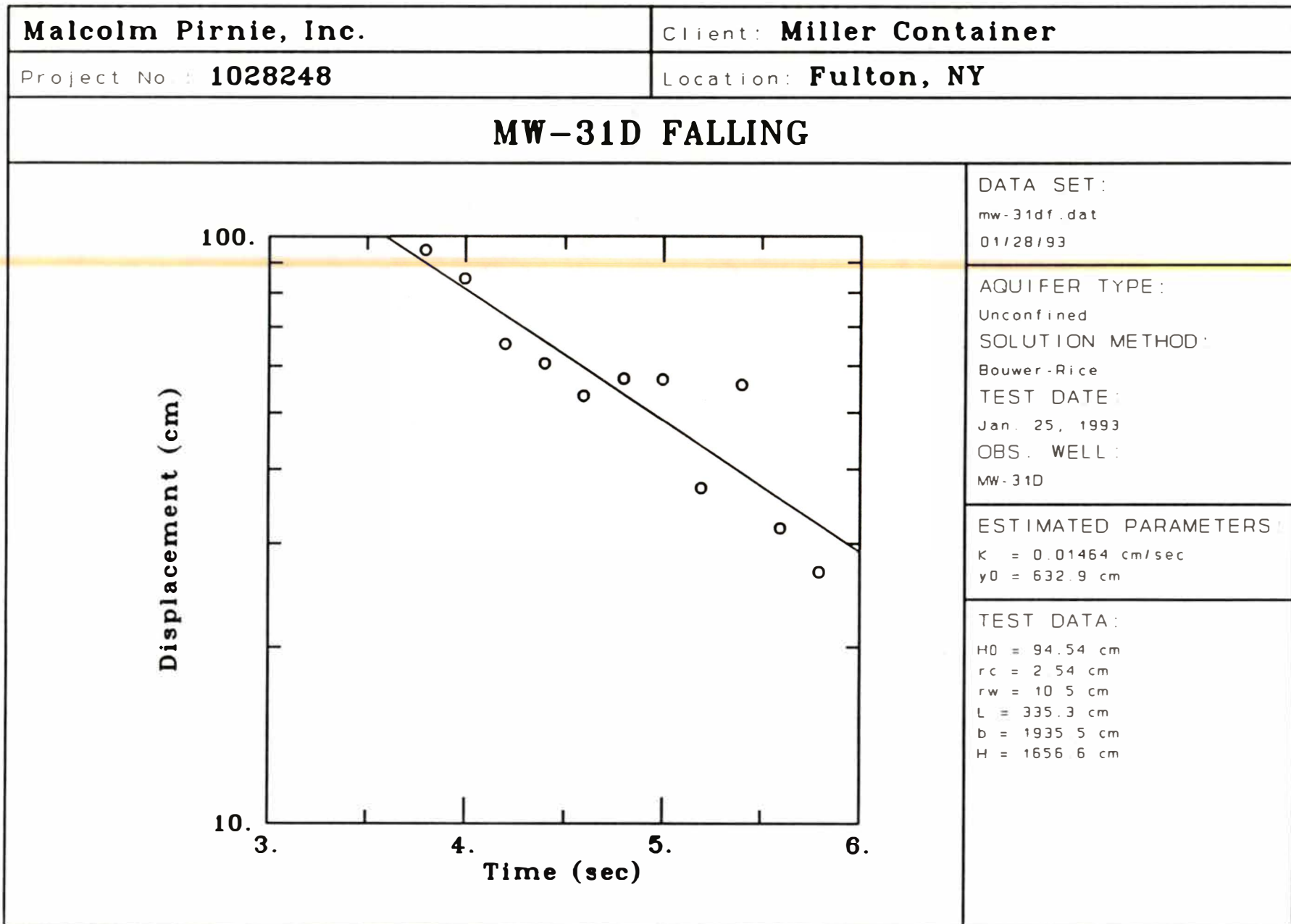
$r_w = 10.5$  cm

$L = 304.8$  cm

$b = 1996.4$  cm

$H = 1696.2$  cm





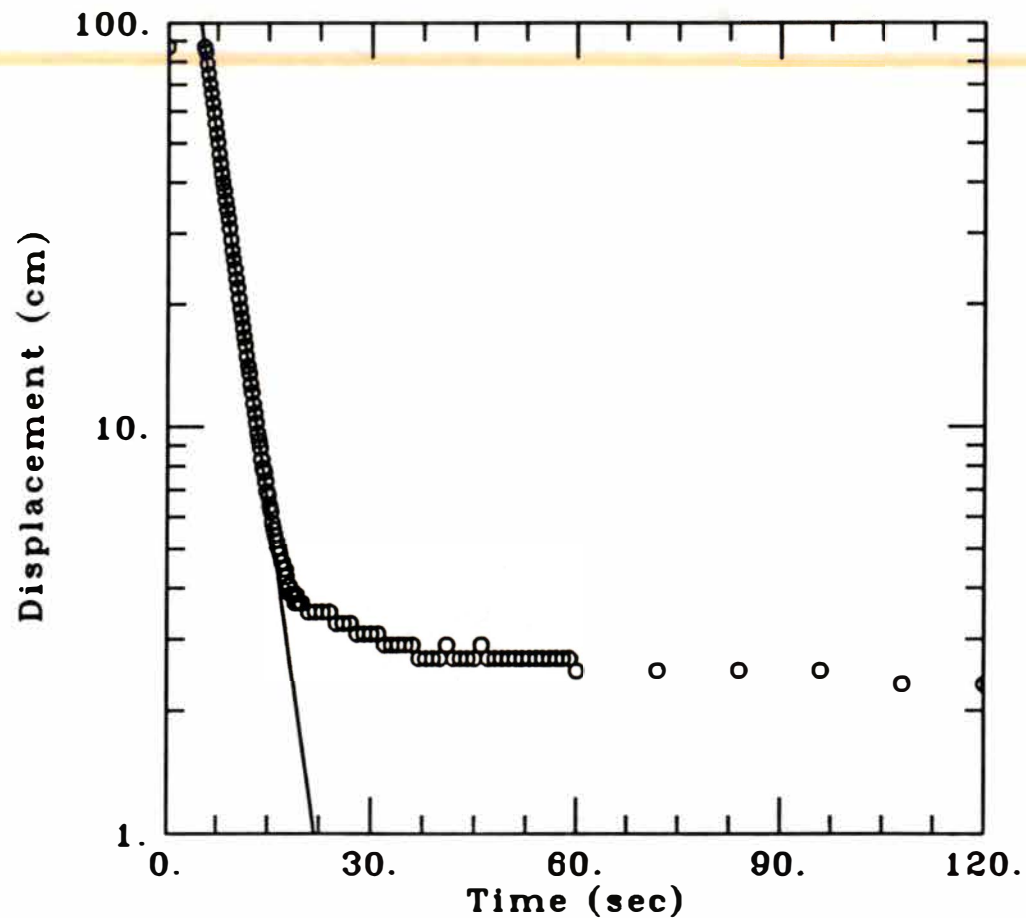
Malcolm Pirnie, Inc.

Client: **Miller Container**

Project No.: **1028248**

Location: **Fulton, NY**

## MW-31D RISING



DATA SET:

MW-31DR.DAT

01/27/93

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

TEST DATE:

Jan. 25, 1993

OBS. WELL:

MW-31D

ESTIMATED PARAMETERS:

$K = 0.007753$  cm/sec

$y_0 = 378.2$  cm

TEST DATA:

$H_0 = 87.02$  cm

$r_c = 2.54$  cm

$r_w = 10.5$  cm

$L = 335.3$  cm

$b = 1935.5$  cm

$H = 1656.6$  cm

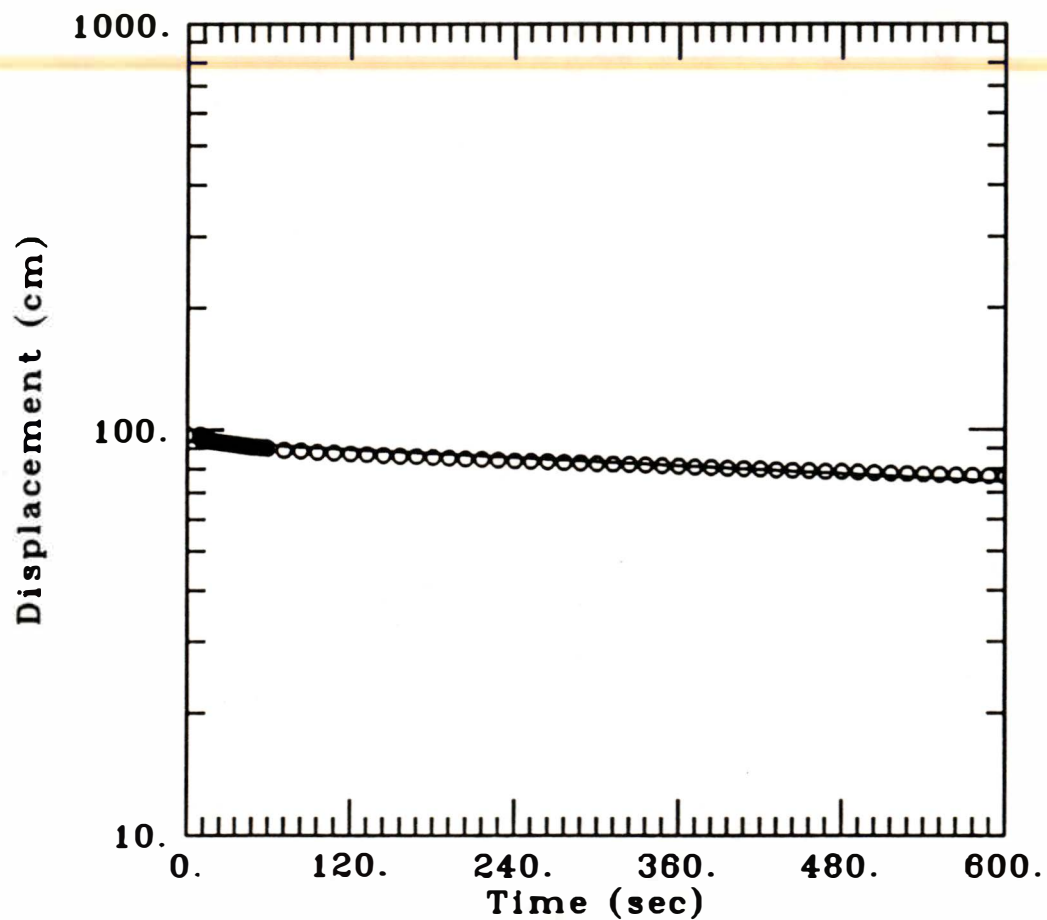
Malcolm Pirnie, Inc.

Client: **Miller Container**

Project No.: **1028248**

Location: **Fulton, NY**

## MW-31S FALLING



### DATA SET:

mw-31sf.dat

01/28/93

### AQUIFER TYPE:

Unconfined

### SOLUTION METHOD:

Bouwer-Rice

### TEST DATE:

Jan. 25, 1993

### OBS. WELL:

MW-31S

### ESTIMATED PARAMETERS:

$K = 1.4151E-05$  cm/sec

$y_0 = 93.76$  cm

### TEST DATA:

$H_0 = 97.26$  cm

$r_c = 2.54$  cm

$r_w = 10.5$  cm

$L = 243.8$  cm

$b = 1935.5$  cm

$H = 1693.2$  cm

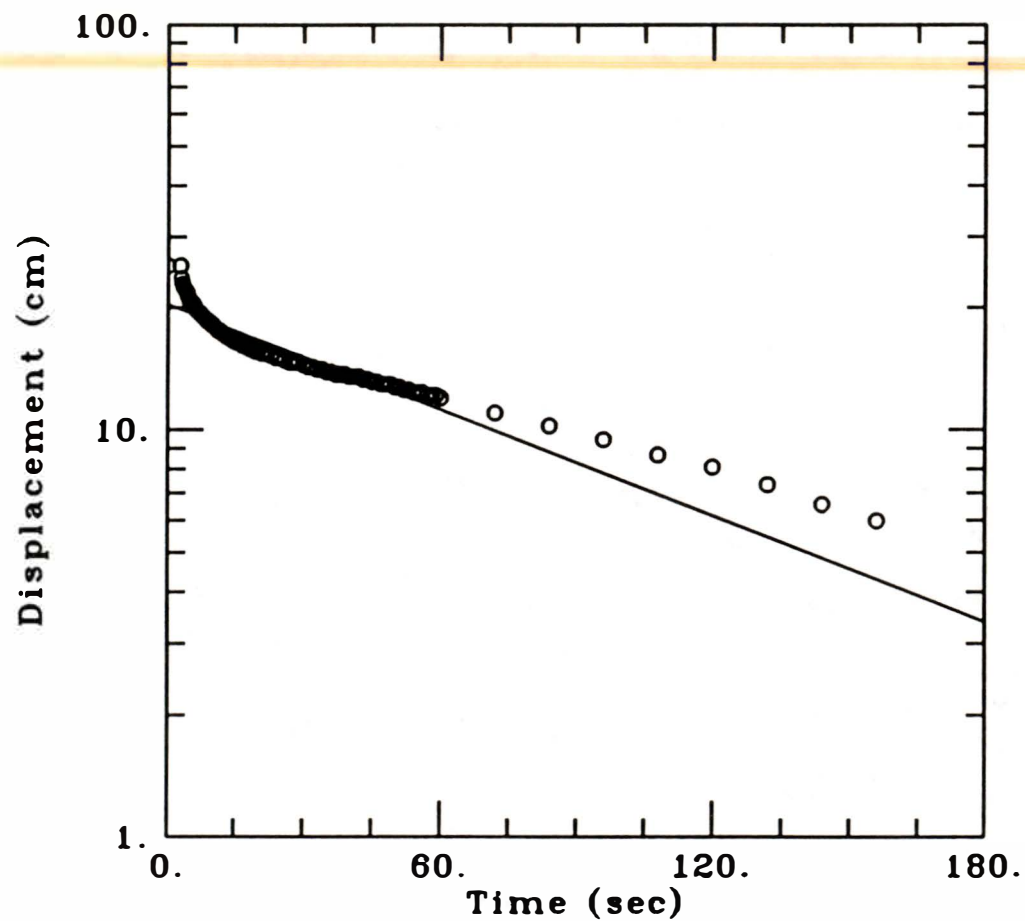
Malcolm Pirnie, Inc.

Client: **Miller Container**

Project No.: **1028248**

Location: **Fulton, NY**

## MW-31S RISING



DATA SET:

MW-31SR.DAT

01/27/93

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

TEST DATE:

Jan. 25, 1993

OBS. WELL:

MW-31S

ESTIMATED PARAMETERS:

$K = 0.0003652$  cm/sec

$y_0 = 20.38$  cm

TEST DATA:

$H_0 = 25.45$  cm

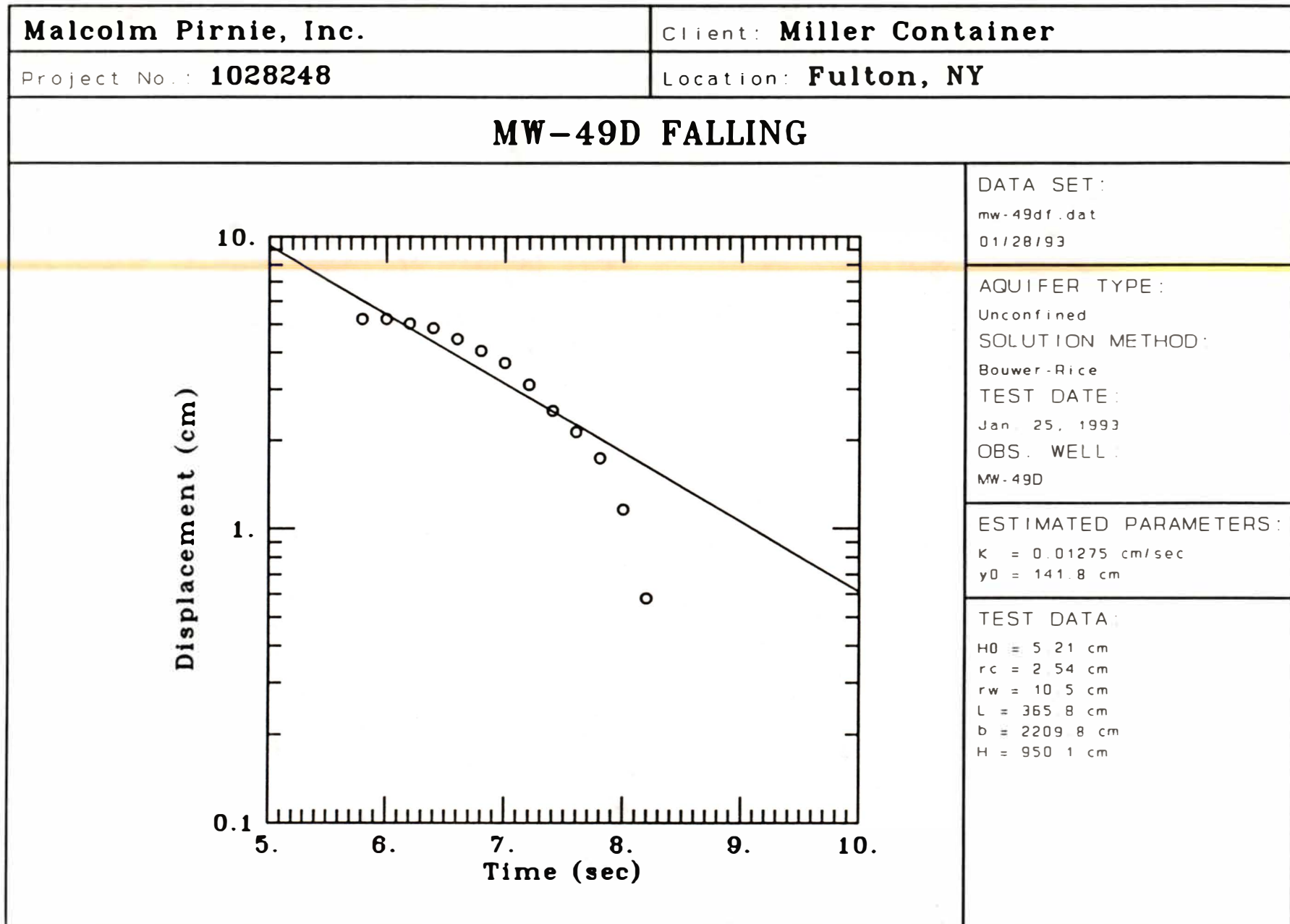
$r_c = 2.54$  cm

$r_w = 10.5$  cm

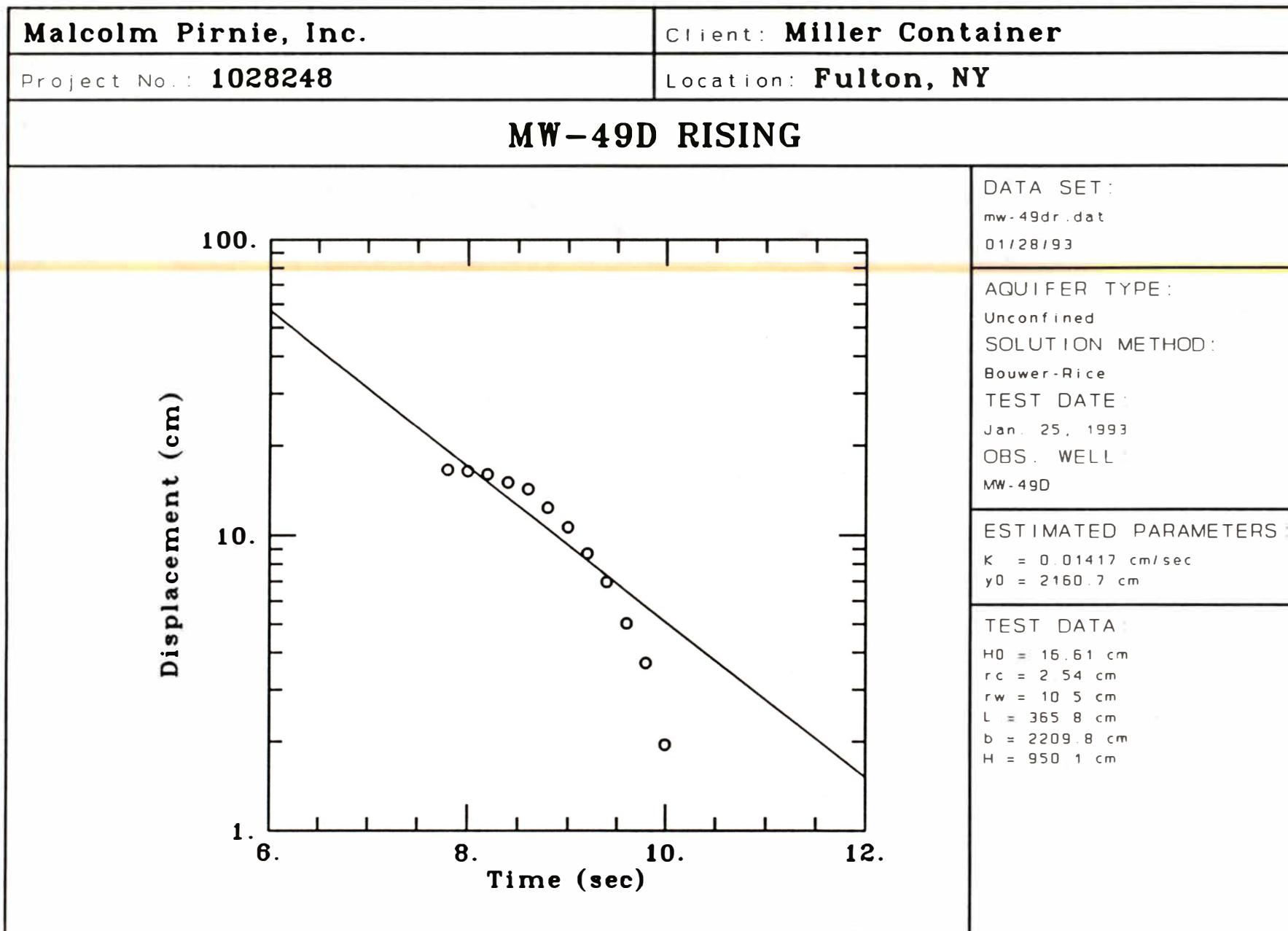
$L = 243.8$  cm

$b = 1935.5$  cm

$H = 1693.2$  cm







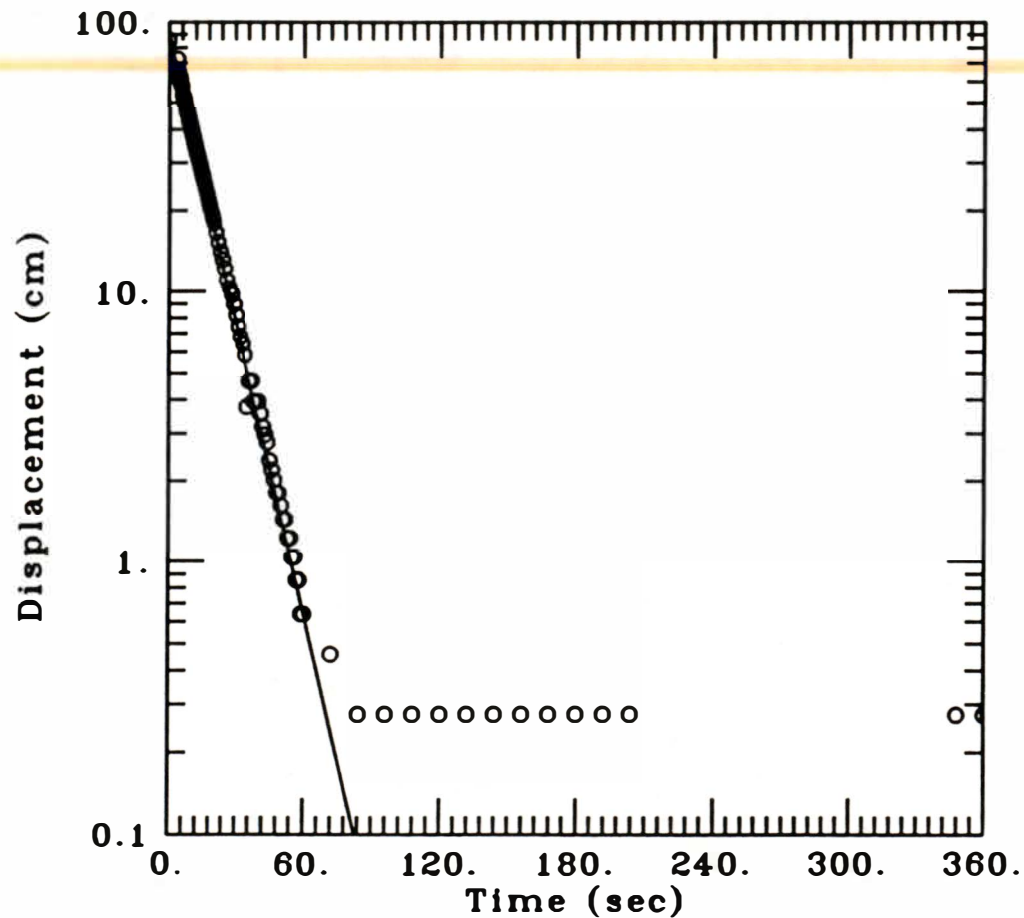
Malcolm Pirnie, Inc.

Client: **Miller Container**

Project No.: **1028248**

Location: **Fulton, NY**

## MW-60S



### DATA SET:

60s.dat

01/25/93

### AQUIFER TYPE:

Unconfined

### SOLUTION METHOD:

Bouwer-Rice

### TEST DATE:

Jan. 11, 1993

### OBS. WELL:

MW-60S

### ESTIMATED PARAMETERS:

$K = 0.001459$  cm/sec

$y_0 = 89.81$  cm

### TEST DATA:

$H_0 = 85.3$  cm

$r_c = 2.54$  cm

$r_w = 10.5$  cm

$L = 396.2$  cm

$b = 1524$  cm

$H = 286.5$  cm

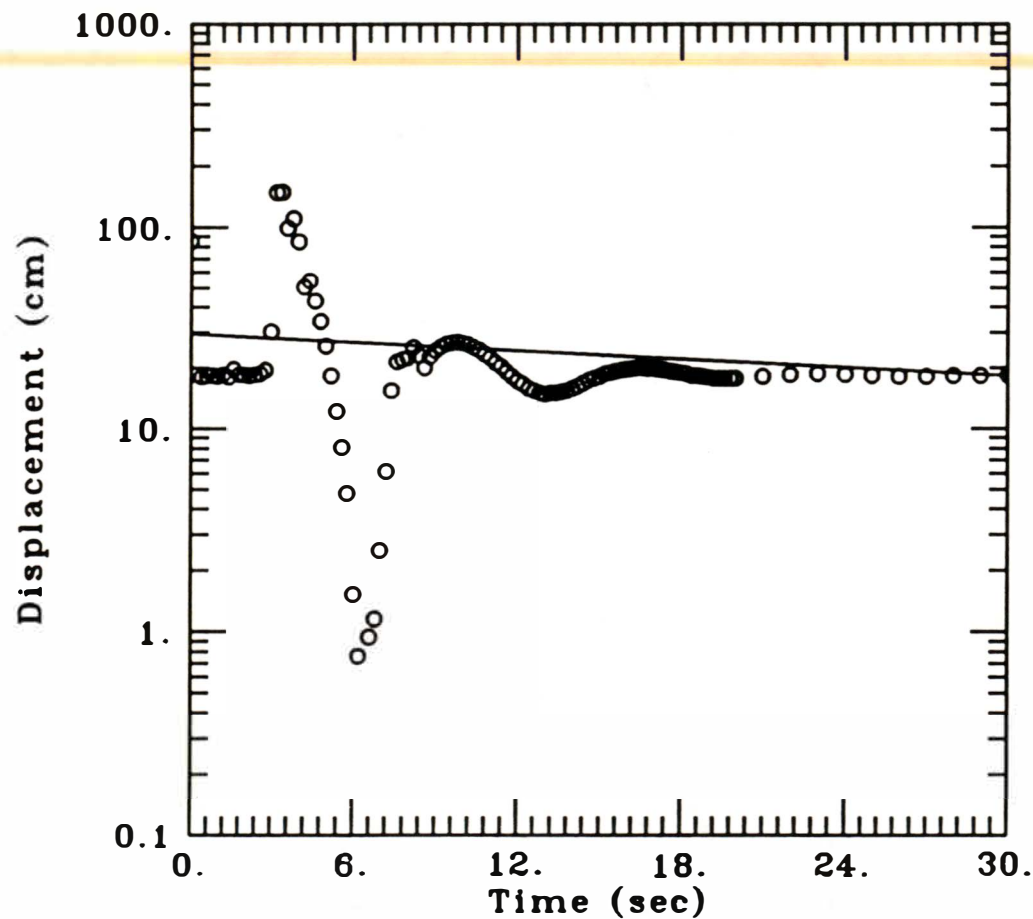
Malcolm Pirnie, Inc.

Client: **Miller Container**

Project No.: **1028248**

Location: **Fulton, NY**

## MW-60I



DATA SET:

60i.dat

01/25/93

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Bouwer-Rice

TEST DATE:

Jan. 11, 1993

OBS. WELL:

MW-60I

ESTIMATED PARAMETERS:

$K = 0.0003599$  cm/sec

$y_0 = 29.47$  cm

TEST DATA:

$H_0 = 85.3$  cm

$r_c = 2.54$  cm

$r_w = 10.5$  cm

$L = 396.2$  cm

$b = 1524.$  cm

$H = 960.1$  cm

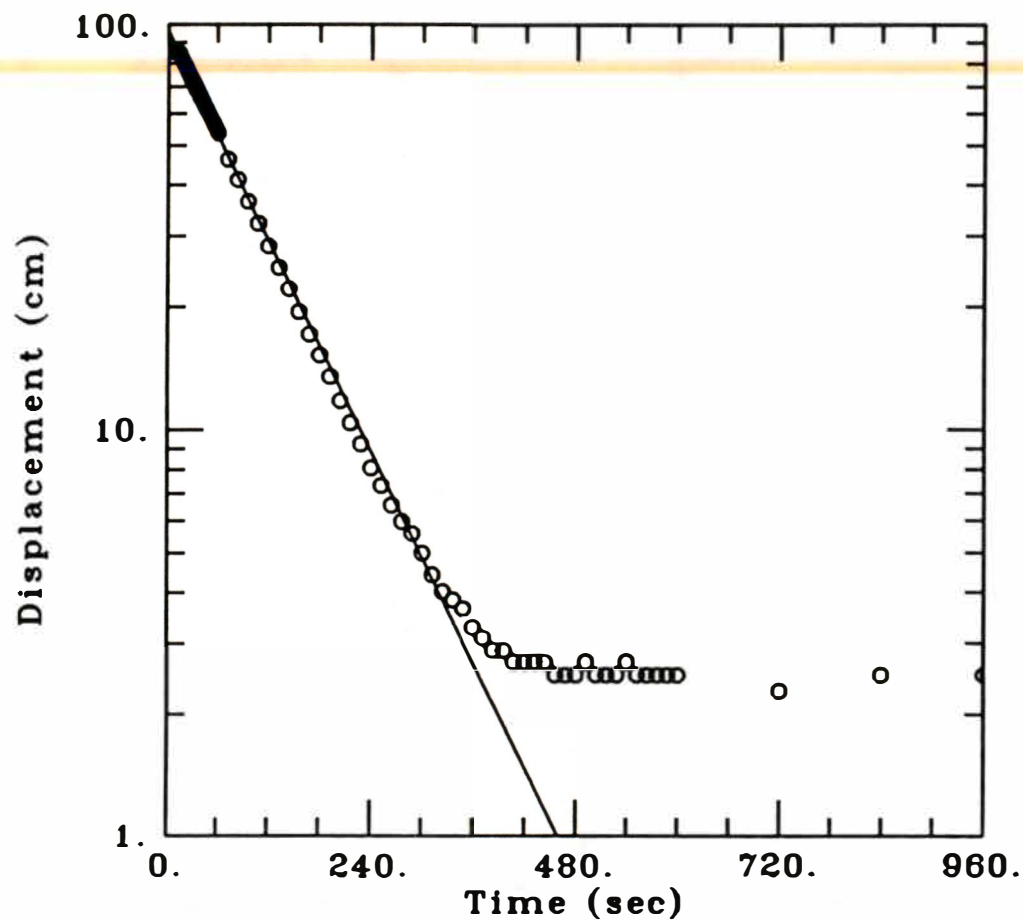
Malcolm Pirnie, Inc.

Client: Miller Container

Project No.: 1028248

Location: Fulton, NY

## MW-60D



### DATA SET:

60d.dat  
01/25/93

### AQUIFER TYPE:

Unconfined

### SOLUTION METHOD:

Bouwer-Rice

### TEST DATE:

Jan. 11, 1993

### OBS. WELL:

MW-60D

### ESTIMATED PARAMETERS:

$K = 0.000271$  cm/sec  
 $y_0 = 96.32$  cm

### TEST DATA:

$H_0 = 85.3$  cm  
 $r_c = 2.54$  cm  
 $r_w = 10.5$  cm  
 $L = 396.2$  cm  
 $b = 1524$  cm  
 $H = 1506$  cm

***APPENDIX R***  
***(UPDATED FEBRUARY 1993)***

***Key Ground Water Parameters***  
***Data Tables***

**MILLER CONTAINER**  
**GROUND WATER DATA - KEY PARAMETERS**

| WELL NO.                  | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE | c-1,2-DCE | MISCELLANEOUS      |
|---------------------------|--------------|---------|---------|-----------|--------|------|-----------|--------------------|
| MW-1S                     | 09/25/86     | BDL1    | BDL1    | 8100      | 54     | 2400 | BDL1      |                    |
|                           | 12/22/86     | BDL50   | 70      | 7600      | BDL50  | 1900 | BDL50     |                    |
|                           | 03/19/87     | BDL200  | TR<200  | 4400      | 130    | 1600 | BDL200    |                    |
|                           | 04/22/87     | TR<200  | TR<200  | 3900      | TR<200 | 1900 | BDL200    |                    |
|                           | 05/22/87     | BDL200  | TR<200  | 4900      | TR<200 | 1400 | BDL200    |                    |
|                           | 06/24/87     | BDL200  | TR<200  | 4000      | BDL200 | 1400 | BDL200    |                    |
|                           | 08/25/87     | DRY     | DRY     | DRY       | DRY    | DRY  | BDL200    |                    |
|                           | 09/24/87     | TR<200  | TR<200  | 2900      | TR<200 | 1500 | BDL200    |                    |
|                           | 12/31/87     | BDL200  | BDL200  | 2600      | BDL200 | 1800 | BDL200    |                    |
|                           | 03/23/88     | BDL200  | BDL200  | 1400      | BDL200 | 640  | BDL200    |                    |
|                           | 05/17/88     | BDL50   | 72      | 1600      | BDL50  | 1500 | BDL50     |                    |
|                           | 06/20/88     | BDL50   | BDL50   | 2000      | BDL50  | 1500 | BDL50     |                    |
|                           | 07/25/88     | DRY     | DRY     | DRY       | DRY    | DRY  | DRY       |                    |
|                           | 08/22/88     | DRY     | DRY     | DRY       | DRY    | DRY  | DRY       |                    |
|                           | 09/23/88     | DRY     | DRY     | DRY       | DRY    | DRY  | DRY       |                    |
|                           | 10/25/88     | DRY     | DRY     | DRY       | DRY    | DRY  | DRY       |                    |
|                           | 11/28/88     | DRY     | DRY     | DRY       | DRY    | DRY  | DRY       |                    |
|                           | 12/21/88     | DRY     | DRY     | DRY       | DRY    | DRY  | DRY       |                    |
|                           | 03/16/89     | BDL50   | BDL50   | 1100      | 380    | 610  | BDL50     |                    |
|                           | 06/23/89     | BDL100  | BDL100  | 400       | BDL100 | 640  | BDL100    |                    |
|                           | 09/18/89     | DRY     | DRY     | DRY       | DRY    | DRY  | DRY       |                    |
|                           | 12/19/89     | BDL50   | BDL50   | 1200      | BDL50  | 790  | BDL50     |                    |
|                           | 03/21/90     | BDL20   | 24      | 920       | BDL20  | 730  | BDL20     |                    |
|                           | 04/23/90     | 34      | 32      | 910       | BDL20  | 630  | BDL20     |                    |
|                           | 05/22/90     | 41      | 33      | 1000      | 30     | 670  | 190       |                    |
|                           | 06/28/90     | 29      | 37      | 950       | BDL20  | 630  | 193       |                    |
|                           | 07/26/90     | 30      | 32      | 1200      | BDL20  | 780  | 200       |                    |
|                           | 12/12/90     | BDL50   | BDL50   | 1400      | 210    | 1000 | BDL50     |                    |
|                           | 12/12/90     | 70      | 42      | 1500      | 15     | 960  | NA        | 270 1,2-DCE(total) |
|                           | 03/19/91     | 360     | 52      | 1500      | BDL50  | 1000 | 200       | 70 DCM *           |
|                           | 06/19/91     | BDL50   | BDL50   | 660       | BDL50  | 830  | 160       |                    |
|                           | 09/26/91     | BDL50   | BDL50   | 1700      | BDL50  | 860  | 200       |                    |
|                           | 12/19/91     | 74      | 86      | 1800      | BDL50  | 1200 | 380       |                    |
|                           | 01/24/92     | BDL50   | BDL50   | 1100      | BDL50  | 820  | 220       |                    |
|                           | 02/20/92     | BDL50   | BDL50   | 1100      | BDL50  | 760  | 140       |                    |
|                           | 03/25/92     | BDL50   | BDL50   | 990       | BDL50  | 710  | 150       |                    |
|                           | 04/24/92     | BDL50   | BDL50   | 890       | BDL50  | 680  | 180       |                    |
|                           | 08/27/92     | BDL50   | 65      | 1000      | BDL50  | 750  | 180       | 140 DCM            |
| UPSTATE GALSON ASP GALSON |              |         |         |           |        |      |           |                    |

**MILLER CONTAINER**  
**GROUND WATER DATA – KEY PARAMETERS**

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE   | TTCE  | c-1,2-DCE | MISCELLANEOUS |
|-------------|--------------|---------|---------|-----------|-------|-------|-----------|---------------|
| MW-1D       | 07/17/86     | 26      | 93      | 350       | 7     | 230   | BDL10     |               |
|             | 09/25/86     | BDL1    | 76      | 620       | 6     | 160   | BDL1      |               |
|             | 12/22/86     | TR<10   | 46      | 450       | BDL10 | 71    | BDL10     |               |
|             | 03/19/87     | 31      | 12      | 410       | 17    | 140   | BDL10     |               |
|             | 04/22/87     | 41      | 19      | 560       | 14    | 280   | BDL10     |               |
|             | 05/22/87     | 38      | 26      | 610       | 19    | 210   | BDL10     |               |
|             | 06/24/87     | 51      | 31      | 560       | TR<20 | 240   | BDL20     |               |
|             | 07/22/87     | 60      | 53      | 400       | 57    | 270   | BDL20     |               |
|             | 08/25/87     | 89      | 240     | 1500      | 59    | 1100  | BDL50     |               |
|             | 09/24/87     | 130     | 66      | 760       | 160   | 640   | BDL50     |               |
|             | 10/23/87     | BDL50   | BDL50   | 520       | 90    | 550   | BDL50     |               |
|             | 11/25/87     | BDL10   | 39      | 570       | 72    | 550   | BDL10     |               |
|             | 12/31/87     | BDL10   | 29      | 560       | 73    | 490   | BDL10     |               |
|             | 01/29/88     | BDL10   | 19      | 560       | 50    | 450   | BDL10     |               |
|             | 02/25/88     | BDL10   | BDL10   | 490       | 65    | 500   | BDL10     |               |
|             | 03/23/88     | 46      | 17      | 350       | 60    | 270   | BDL10     |               |
|             | 04/15/88     | 22      | 15      | 360       | 20    | 230   | BDL10     |               |
|             | 05/17/88     | 26      | 29      | 350       | 72    | 410   | BDL10     |               |
|             | 06/20/88     | BDL10   | 13      | 390       | 86    | 470   | BDL10     |               |
|             | 07/25/88     | 32      | BDL10   | 220       | 47    | 320   | BDL10     |               |
|             | 08/22/88     | BDL10   | BDL10   | 350       | 48    | 260   | BDL10     |               |
|             | 09/23/88     | 28      | 21      | 240       | 57    | 280   | BDL10     |               |
|             | 10/25/88     | 30      | 13      | 400       | 74    | 540   | BDL10     |               |
|             | 11/28/88     | BDL10   | BDL10   | 200       | 35    | 260   | BDL10     |               |
|             | 12/21/88     | BDL10   | BDL10   | 160       | 37    | 220   | BDL10     |               |
|             | 01/25/89     | 15      | BDL10   | 190       | 50    | 230   | BDL10     |               |
|             | 02/22/89     | BDL10   | BDL10   | 190       | 47    | 220   | BDL10     |               |
|             | 03/16/89     | BDL10   | BDL10   | 210       | 56    | 320   | BDL10     |               |
|             | 04/21/89     | BDL10   | BDL10   | 180       | 72    | 260   | BDL10     |               |
|             | 05/22/89     | 20      | BDL10   | 270       | 140   | 280   | BDL10     |               |
|             | 06/23/89     | BDL20   | BDL20   | 78        | 59    | 370   | BDL20     |               |
|             | 07/19/89     | BDL10   | BDL10   | 280       | 94    | 730   | BDL10     |               |
|             | 08/24/89     | 27      | 8       | 140       | 58    | 300   | BDL10     |               |
|             | 09/18/89     | 30      | BDL10   | 260       | 66    | 380   | BDL10     |               |
|             | 10/24/89     | 25      | BDL10   | 210       | 71    | 370   | BDL10     |               |
|             | 11/22/89     | 17      | BDL10   | 150       | 50    | 280   | BDL10     |               |
|             | 12/19/89     | 33      | BDL10   | 210       | 64    | 290   | BDL10     |               |
|             | 01/23/90     | 29      | BDL10   | 150       | 65    | 280   | BDL10     |               |
|             | 02/21/90     | 22      | BDL10   | 210       | 64    | 260   | BDL10     |               |
|             | 03/21/90     | 28      | BDL10   | 170       | 63    | 280   | BDL10     |               |
|             | 04/23/90     | 27      | BDL10   | 150       | 62    | 200   | BDL10     |               |
|             | 05/22/90     | 24      | BDL10   | 220       | 74    | 240   | BDL10     |               |
|             | 06/28/90     | 33      | BDL10   | 230       | 70    | 210   | BDL10     |               |
|             | 07/26/90     | 19      | BDL10   | 230       | 72    | 280   | BDL10     |               |
|             | 09/20/90     | 41      | BDL10   | 330       | 110   | 280   | BDL10     |               |
|             | 12/12/90     | BDL10   | BDL10   | 210       | 85    | BDL10 | BDL10     |               |
|             | 01/14/91     | 54      | BDL10   | 270       | 77    | 280   | BDL10     |               |
| GALSON      | 01/14/91     | 57      | 11      | 200       | 59    | 180   | 5.3       |               |
| GALSON      | 01/31/91     | 94      | 14      | 260       | 74    | 230   | 6.4       | 12 DCM        |
| GALSON      | 02/27/91     | 94      | 15      | 270       | 78    | 240   | 8.1       | 40 DCM •      |
| GALSON      | 03/19/91     | 100     | 15      | 300       | 80    | 250   | 5.8       | 12 DCM •      |
|             | 04/30/91     | 76      | 17      | 280       | 74    | 230   | 5         |               |
| (continued) | 05/31/91     | 48      | 8.1     | 250       | 76    | 210   | BDL5      | 33 DCM •      |



## GROUND WATER DATA – KEY PARAMETERS

| WELL NO.             | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE  | c-1,2-DCE | MISCELLANEOUS |
|----------------------|--------------|---------|---------|-----------|--------|-------|-----------|---------------|
| MW-1D<br>(continued) | 06/19/91     | 40      | 5       | 140       | 81     | 250   | BDL5      | 5.3 DCM       |
|                      | 07/24/91     | 66      | BDL5    | 260       | 90     | 260   | BDL5      |               |
|                      | 08/28/91     | 58      | 15      | 360       | 96     | 260   | BDL5      | 29 DCM *      |
|                      | 09/26/91     | 42      | 14      | 410       | 100    | 270   | 9.2       | 25 DCM *      |
|                      | 10/24/91     | 32      | 13      | 230       | 110    | 270   | 5.2       | 6.2 DCM       |
|                      | 11/21/91     | 22      | 13      | 240       | 86     | 210   | BDL5      |               |
|                      | 12/19/91     | 37      | 12      | 190       | 110    | 270   | BDL5      |               |
|                      | 01/24/92     | 33      | 13      | 200       | 98     | 230   | BDL5      |               |
|                      | 04/24/92     | 31      | 9       | 150       | 82     | 180   | BDL5      |               |
|                      | 08/27/92     | 30      | 9.3     | 190       | 85     | 190   | BDL5      | 11 DCM        |
| MW-2S                | 09/25/86     | BDL1    | BDL1    | 65        | BDL1   | BDL1  | BDL1      |               |
|                      | 12/22/86     | BDL10   | BDL10   | 41        | BDL10  | BDL10 | BDL10     |               |
|                      | 03/19/87     | 27      | 6       | 60        | 3      | BDL5  | BDL5      |               |
|                      | 06/24/87     | BDL10   | 31      | 150       | BDL10  | BDL10 | BDL10     |               |
|                      | 09/24/87     | 15      | 28      | 260       | 16     | BDL10 | BDL10     |               |
|                      | 12/31/87     | BDL10   | 100     | 400       | 10     | 240   | BDL10     |               |
|                      | 03/23/88     | 61      | 170     | 1200      | BDL10  | BDL10 | BDL10     |               |
|                      | 06/21/88     | BDL50   | 98      | 1200      | BDL50  | 90    | BDL50     |               |
|                      | 09/23/88     | DRY     | DRY     | DRY       | DRY    | DRY   | DRY       |               |
|                      | 12/21/88     | BDL50   | BDL50   | 1000      | BDL50  | BDL50 | BDL50     |               |
|                      | 03/16/89     | BDL50   | 62      | 530       | BDL50  | 73    | BDL50     |               |
|                      | 06/23/89     | BDL50   | BDL50   | 240       | BDL50  | 96    | BDL50     |               |
|                      | 09/18/89     | BDL50   | BDL50   | 910       | BDL50  | 88    | BDL50     |               |
|                      | 12/19/89     | 120     | BDL50   | 1100      | BDL50  | 160   | BDL50     |               |
|                      | 03/21/90     | BDL100  | BDL100  | 1800      | BDL100 | 420   | BDL100    |               |
|                      | 04/23/90     | 160     | BDL100  | 1600      | BDL100 | 420   | BDL100    |               |
|                      | 05/22/90     | 140     | BDL100  | 1700      | BDL100 | 310   | BDL100    |               |
|                      | 06/28/90     | 130     | 140     | 1500      | BDL100 | 270   | BDL100    |               |
|                      | 07/26/90     | BDL100  | 130     | 1700      | BDL100 | 380   | BDL100    |               |
|                      | 09/20/90     | 130     | BDL100  | 1700      | BDL100 | 390   | BDL100    |               |
|                      | 12/12/90     | BDL100  | BDL100  | 2600      | BDL100 | 730   | BDL100    |               |
| GALSON               | 03/19/91     | 580     | 190     | 1800      | BDL50  | 550   | BDL50     | 110 DCM *     |
|                      | 06/19/91     | 180     | 97      | 1100      | BDL50  | 590   | BDL50     |               |
|                      | 09/26/91     | 200     | 180     | 2700      | BDL50  | 610   | 9.2       | 240 DCM *     |
|                      | 12/19/91     | 300     | 120     | 2700      | BDL50  | 890   | BDL50     |               |
|                      | 01/24/92     | 270     | 130     | 2700      | BDL50  | 850   | BDL50     | 72 DCM        |
|                      | 02/20/92     | 230     | 150     | 2300      | BDL50  | 830   | BDL50     | 60 DCM *      |
|                      | 03/25/92     | 240     | 200     | 2000      | BDL50  | 730   | BDL50     | 55 DCM        |
|                      | 04/24/92     | 210     | 150     | 1800      | BDL50  | 730   | BDL50     | 50 DCM        |
|                      | 08/27/92     | 260     | 170     | 1900      | BDL50  | 900   | 64        | 68 DCM *      |



## GROUND WATER DATA – KEY PARAMETERS

| WELL NO. | DATE SAMPLED          | 1,1-DCE  | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE  | c-1,2-DCE | MISCELLANEOUS |
|----------|-----------------------|----------|---------|-----------|--------|-------|-----------|---------------|
| MW-2D    | 07/18/86              | 11       | 21      | 860       | BDL10  | BDL10 | BDL10     |               |
|          | 09/25/86              | BDL1     | 5       | 3300      | BDL1   | BDL1  | BDL1      |               |
|          | 12/22/86              | BDL50    | BDL50   | 1400      | BDL50  | TR<50 | BDL50     |               |
|          | 03/19/87              | BDL50    | BDL50   | 1700      | 40     | BDL50 | BDL50     |               |
|          | 06/24/87              | BDL50    | BDL50   | 1100      | BDL50  | BDL50 | BDL50     |               |
|          | 09/24/87              | TR<50    | TR<50   | 1400      | TR<50  | BDL50 | BDL50     |               |
|          | 12/31/87              | BDL50    | BDL50   | 1000      | BDL50  | BDL50 | BDL50     |               |
|          | 03/23/88              | 100      | BDL50   | 1200      | BDL50  | 73    | BDL50     |               |
|          | 06/21/88              | BDL50    | BDL50   | 1100      | BDL50  | 280   | BDL50     |               |
|          | 09/23/88              | BDL50    | BDL50   | 700       | BDL50  | 330   | BDL50     |               |
|          | 12/21/88              | BDL50    | BDL50   | 700       | BDL50  | 320   | BDL50     |               |
|          | 03/16/89              | BDL50    | BDL50   | 470       | BDL50  | 230   | BDL50     |               |
|          | 06/23/89              | BDL50    | BDL50   | 630       | BDL50  | 260   | BDL50     |               |
|          | 09/18/89              | BDL50    | BDL50   | 630       | BDL50  | 330   | BDL50     |               |
|          | 12/19/89              | 97       | BDL50   | 810       | BDL50  | 320   | BDL50     |               |
|          | 03/21/90              | BDL50    | BDL50   | 600       | BDL50  | 310   | BDL50     |               |
|          | 04/23/90              | 68       | BDL50   | 590       | BDL50  | 230   | BDL50     |               |
|          | 05/22/90              | 79       | BDL50   | 770       | BDL50  | 220   | BDL50     |               |
|          | 06/28/90              | 93       | BDL50   | 690       | BDL50  | 180   | BDL50     |               |
|          | GALSON                | 07/26/90 | BDL50   | BDL50     | 770    | BDL50 | 240       | BDL50         |
| 09/20/90 |                       | 85       | BDL50   | 840       | BDL50  | 310   | BDL50     |               |
| 12/12/90 |                       | BDL50    | BDL50   | 730       | BDL50  | 320   | BDL50     |               |
| 03/19/91 |                       | 220      | 17      | 550       | 7.4    | 340   | BDL5      | 12 DCM *      |
| 06/19/91 |                       | 64       | 5.0     | 230       | 5.4    | 300   | BDL5      |               |
| 09/26/91 |                       | 33       | 19      | 290       | 41     | 330   | BDL5      | 8.0 DCM *     |
| 12/19/91 |                       | 59       | 18      | 460       | 24     | 360   | BDL5      | 6.0 DCM *     |
| 01/24/92 |                       | 49       | 13      | 350       | 15     | 350   | BDL5      | 5.7 DCM       |
| 04/24/92 |                       | 57       | 15      | 300       | 32     | 440   | 5.1       |               |
| 08/27/92 |                       | 46       | 18      | 240       | 37     | 400   | 5.0       | 33 DCM *      |
| MW-3S    | 09/25/86              | BDL1     | BDL1    | BDL1      | BDL1   | BDL1  | BDL1      |               |
|          | 12/22/86              | TR<5     | TR<1    | 6         | BDL1   | BDL1  | BDL1      |               |
|          | 03/18/87              | 5        | 2       | 50        | 2      | BDL1  | BDL1      |               |
|          | 06/24/87              | 5        | 8       | 53        | 2      | BDL1  | BDL1      |               |
|          | 09/24/87              | BDL5     | 2       | 9         | BDL1   | 4     | BDL1      |               |
|          | 12/31/87              | BDL1     | 4       | 16        | BDL1   | 4     | BDL1      |               |
|          | 03/23/88              | BDL1     | 5       | 17        | BDL1   | 5     | BDL1      |               |
|          | 06/20/88              | BDL1     | BDL1    | 30        | BDL1   | 16    | BDL1      |               |
|          | 09/23/88              | DRY      | DRY     | DRY       | DRY    | DRY   | DRY       |               |
|          | 12/21/88              | BDL1     | BDL1    | 9         | BDL1   | BDL1  | BDL1      |               |
|          | 03/16/89              | BDL1     | 2       | 9         | BDL1   | BDL1  | BDL1      |               |
|          | 06/23/89              | BDL1     | BDL1    | BDL1      | 7      | BDL1  | BDL1      |               |
|          | 09/18/89              | BDL1     | BDL1    | 5         | BDL1   | BDL1  | BDL1      |               |
|          | 12/19/89              | 2        | BDL1    | 16        | BDL1   | BDL1  | BDL1      |               |
|          | 03/21/90              | BDL10    | BDL10   | 120       | BDL10  | BDL10 | BDL10     |               |
|          | 04/23/90              | 16       | BDL10   | 130       | BDL10  | BDL10 | BDL10     |               |
|          | 05/22/90              | 7        | BDL5    | 87        | BDL5   | 8     | BDL5      |               |
|          | 06/28/90              | 5        | BDL5    | 69        | BDL5   | 7     | BDL5      |               |
|          | 07/26/90              | BDL5     | BDL5    | 54        | BDL5   | 12    | BDL5      |               |
|          | GALSON<br>(continued) | 09/20/90 | BDL5    | BDL5      | 28     | BDL5  | 10        | BDL5          |
| 12/12/90 |                       | BDL1     | 13      | 45        | BDL1   | 23    | BDL1      |               |
| 03/19/91 |                       | 8.4      | 8.9     | 31        | BDL5   | 9.8   | BDL5      | 8.2 DCM *     |
|          | 06/19/91              | 1.9      | 4.7     | 19        | BDL0.5 | 11    | 1.9       | 0.8 DCM       |

**MILLER CONTAINER**  
**GROUND WATER DATA - KEY PARAMETERS**

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE  | c-1,2-DCE | MISCELLANEOUS                            |
|-------------|--------------|---------|---------|-----------|--------|-------|-----------|------------------------------------------|
| (continued) | 12/19/91     | 5.7     | 18      | 53        | 1.3    | 29    | 5         | 1.2 DCM *                                |
| MW-3S       | 01/24/92     | 3.4     | 18      | 27        | 1.0    | 18    | 5.1       | 0.5 DCM                                  |
|             | 04/24/92     | 0.6     | 5.6     | 5.2       | BDL0.5 | 4.4   | 1.6       |                                          |
|             | 08/27/92     | 1.1     | 9.8     | 6.7       | 0.9    | 6.7   | 2.5       | 1.3 DCM *                                |
| MW-3D       | 07/18/86     | 13      | 73      | 460       | BDL10  | 150   | BDL10     |                                          |
|             | 09/25/86     | BDL1    | 35      | 1200      | 28     | BDL1  | BDL1      |                                          |
|             | 12/22/86     | TR<25   | 29      | 990       | BDL25  | TR<25 | BDL25     |                                          |
|             | 03/18/87     | 58      | 13      | 220       | BDL10  | BDL10 | BDL10     |                                          |
|             | 06/24/87     | BDL20   | BDL20   | 830       | BDL20  | TR<20 | BDL20     |                                          |
|             | 09/24/87     | 120     | BDL20   | 1100      | 71     | 32    | BDL20     |                                          |
|             | 12/31/87     | BDL20   | 60      | 1600      | BDL20  | 180   | BDL20     |                                          |
|             | 03/23/88     | 150     | 25      | 980       | BDL20  | 240   | BDL20     |                                          |
|             | 06/20/88     | BDL20   | BDL20   | 690       | 21     | 250   | BDL20     |                                          |
|             | 09/23/88     | 1700    | BDL500  | 33000     | BDL500 | 14000 | BDL500    |                                          |
|             | 10/25/88     | 1400    | 1000    | 42000     | 810    | 13000 | BDL500    |                                          |
|             | 11/28/88     | 1300    | 710     | 4800      | 290    | 3100  | BDL100    |                                          |
|             | 12/21/88     | 1000    | 310     | 13000     | BDL100 | 6500  | BDL100    |                                          |
|             | 01/25/89     | 1700    | 460     | 14000     | 230    | 8100  | BDL100    |                                          |
|             | 02/22/89     | 780     | 1000    | 16000     | 270    | 9700  | BDL100    |                                          |
|             | 03/16/89     | 1200    | 700     | 21000     | BDL500 | 8000  | BDL500    |                                          |
|             | 04/21/89     | 1500    | 940     | 16000     | 220    | 7000  | BDL100    |                                          |
|             | 05/22/89     | 930     | 600     | 3400      | 190    | 3900  | BDL50     |                                          |
|             | 06/23/89     | BDL500  | BDL500  | 11000     | BDL500 | 4200  | BDL500    |                                          |
|             | 07/19/89     | 1700    | 820     | 13000     | BDL100 | 12000 | BDL100    |                                          |
|             | 08/24/89     | BDL100  | BDL100  | 5200      | BDL100 | 2200  | BDL100    |                                          |
|             | 09/18/89     | 590     | BDL100  | 6600      | BDL100 | 3800  | BDL100    |                                          |
|             | 10/24/89     | 400     | BDL100  | 4300      | BDL100 | 3300  | BDL100    |                                          |
|             | 11/22/89     | 250     | BDL100  | 4000      | BDL100 | 2400  | BDL100    |                                          |
|             | 12/19/89     | BDL100  | BDL100  | 3000      | BDL100 | 1700  | BDL100    |                                          |
|             | 01/23/90     | 260     | BDL100  | 2700      | BDL100 | 1600  | BDL100    |                                          |
|             | 02/21/90     | 290     | BDL100  | 3200      | BDL100 | 1600  | BDL100    |                                          |
|             | 03/21/90     | 310     | BDL100  | 1900      | BDL100 | 1200  | BDL100    |                                          |
|             | 04/23/90     | 340     | BDL100  | 3400      | BDL100 | 1400  | BDL100    |                                          |
|             | 05/22/90     | 470     | BDL100  | 4800      | 100    | 2400  | BDL100    |                                          |
|             | 06/28/90     | 380     | BDL100  | 3900      | BDL100 | 1600  | BDL100    |                                          |
|             | 07/26/90     | 300     | BDL100  | 5200      | BDL100 | 2400  | BDL100    |                                          |
|             | 09/20/90     | 520     | 110     | 4800      | BDL100 | 2300  | BDL100    | 350 c-1,2-DCE                            |
| UPSTATE     | 12/12/90     | BDL100  | BDL100  | 5000      | BDL100 | 2500  | BDL100    |                                          |
| GALSON ASP  | 12/12/90     | 410     | 94      | 4300      | 69     | 1700  | BDL100    | 110 1,2-DCE (total), 140 DCM, 13 1,2-DCA |
| UPSTATE     | 01/14/91     | BDL100  | BDL100  | 6600      | BDL100 | 2600  | BDL100    |                                          |
| GALSON      | 01/14/91     | 1600    | 150     | 6100      | 80     | 2300  | BDL100    | 150 c-1,2-DCE, 240 DCM *                 |
| UPSTATE     | 01/31/91     | BDL500  | BDL500  | 8000      | BDL500 | 3800  | BDL100    |                                          |
| GALSON      | 01/31/91     | 1800    | 130     | 8100      | 99     | 2900  | BDL100    | 180 c-1,2-DCE, 190 DCM                   |
| UPSTATE     | 02/27/91     | BDL500  | BDL500  | 10000     | BDL500 | 4500  | BDL100    |                                          |
| GALSON      | 02/27/91     | 2700    | 180     | 8000      | 110    | 3300  | 690       | 580 DCM *                                |
| GALSON      | 03/19/91     | 3200    | 260     | 10000     | 170    | 5400  | 560       | 500 DCM *                                |
|             | 04/30/91     | 1800    | 270     | 10000     | 160    | 4200  | 550       | 420 DCM #                                |
|             | 05/31/91     | 1200    | 190     | 11000     | 270    | 5300  | 580       | 550 DCM *                                |
|             | 06/19/91     | 350     | BDL50   | 2500      | 70     | 2100  | 260       | 1180 DCM                                 |
|             | 07/24/91     | 1900    | 130     | 7100      | 130    | 4000  | 440       | 270 DCM                                  |
|             | 08/28/91     | 840     | 160     | 6700      | 100    | 2500  | 320       | 430 * DCM,                               |
|             | 09/25/91     | 520     | 120     | 9200      | BDL100 | 3300  | 580       |                                          |
| (continued) | 10/24/91     | 340     | 100     | 4600      | 100    | 2400  | 390       | 230 DCM                                  |

**MILLER CONTAINER**  
**GROUND WATER DATA - KEY PARAMETERS**

| WELL NO.             | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|----------------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| (continued)<br>MW-3D | 11/21/91     | 360     | 79      | 7300      | BDL50  | 3200   | 440       | 91 * DCM      |
|                      | 12/19/91     | 420     | BDL100  | 5300      | BDL100 | 2200   | 300       |               |
|                      | 01/24/92     | 520     | 100     | 6100      | BDL100 | 3000   | 200       | 210 DCM       |
|                      | 02/20/92     | 340     | BDL100  | 5000      | BDL100 | 2500   | 230       | 100 DCM *     |
|                      | 03/25/92     | 230     | BDL100  | 2600      | BDL100 | 1200   | 100       |               |
|                      | 04/24/92     | 270     | BDL100  | 3000      | BDL100 | 1600   | 260       | 110 DCM       |
|                      | 08/27/92     | 280     | BDL100  | 2700      | BDL100 | 1400   | 500       | 190 DCM *     |
| MW-4S                | 09/29/86     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 12/22/86     | BDL5    | BDL1    | TR<1      | TR<1   | BDL1   | BDL1      |               |
|                      | 03/19/87     | BDL5    | BDL5    | TR<1      | BDL1   | BDL1   | BDL1      |               |
|                      | 06/24/87     | BDL5    | BDL1    | 3         | BDL1   | BDL1   | BDL1      |               |
|                      | 09/24/87     | BDL5    | BDL1    | TR<1      | BDL1   | BDL1   | BDL1      |               |
|                      | 12/31/87     | BDL1    | BDL1    | BDL1      | 21     | BDL1   | BDL1      |               |
|                      | 03/23/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 06/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 09/23/88     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                      | 12/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 03/16/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 06/23/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 09/18/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 12/19/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 03/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 07/26/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                      | 09/20/90     | BDL1    | BDL1    | BDL1      | BDL1   | 4      | BDL1      |               |
|                      | 12/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
| GALSON               | 03/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *     |
|                      | 06/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                      | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.0 DCM *     |
|                      | 12/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                      | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                      | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                      | 08/27/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 3.0 *         |
| MW-4D                | 07/18/86     | 61      | 91      | 4300      | BDL10  | BDL10  | BDL10     |               |
|                      | 09/29/86     | BDL1    | 140     | 3300      | BDL1   | BDL1   | BDL1      |               |
|                      | 12/22/86     | 400     | 130     | 2800      | BDL25  | TR<25  | BDL25     |               |
|                      | 03/19/87     | 170     | TR<100  | 2600      | TR<100 | TR<100 | BDL100    |               |
|                      | 04/22/87     | 81      | 120     | 2200      | TR<50  | 46     | BDL50     |               |
|                      | 05/22/87     | 210     | 92      | 3700      | TR<50  | 72     | BDL50     |               |
|                      | 06/24/87     | BDL100  | 130     | 2200      | BDL100 | TR<100 | BDL100    |               |
|                      | 07/22/87     | TR<100  | 190     | 2100      | BDL100 | 160    | BDL100    |               |
|                      | 08/25/87     | 160     | TR<50   | 1900      | 130    | 86     | BDL50     |               |
|                      | 09/24/87     | 470     | BDL100  | 4000      | 120    | 170    | BDL100    |               |
|                      | 10/23/87     | BDL200  | BDL200  | 3600      | BDL200 | BDL200 | BDL200    |               |
|                      | 11/25/87     | BDL200  | BDL200  | 1800      | BDL200 | BDL200 | BDL200    |               |
|                      | 12/31/87     | BDL100  | BDL100  | 1900      | BDL100 | BDL100 | BDL100    |               |
|                      | 01/29/88     | BDL100  | BDL100  | 3100      | BDL100 | 200    | BDL100    |               |
| (continued)          | 02/25/88     | BDL100  | BDL100  | 2800      | BDL100 | 430    | BDL100    |               |

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.             | DATE SAMPLED | 1,1-DCE  | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|----------------------|--------------|----------|---------|-----------|--------|--------|-----------|---------------|
| (continued)<br>MW-4D | 03/23/88     | BDL100   | BDL100  | 2000      | BDL100 | 180    | BDL100    |               |
|                      | 04/15/88     | BDL100   | BDL100  | 2200      | BDL100 | 370    | BDL100    |               |
|                      | 05/17/88     | 240      | BDL100  | 3100      | BDL100 | 300    | BDL100    |               |
|                      | 06/20/88     | BDL1     | BDL1    | 2400      | 350    | BDL1   | BDL1      |               |
|                      | 07/25/88     | BDL100   | BDL100  | 1200      | BDL100 | 280    | BDL100    |               |
|                      | 08/22/88     | BDL100   | BDL100  | 1300      | BDL100 | 270    | BDL100    |               |
|                      | 09/23/88     | 59       | BDL100  | 1700      | BDL100 | 300    | BDL100    |               |
|                      | 10/25/88     | BDL100   | BDL100  | 1300      | BDL100 | 250    | BDL100    |               |
|                      | 11/28/88     | BDL100   | BDL100  | 1500      | BDL100 | BDL100 | BDL100    |               |
|                      | 12/20/88     | BDL100   | BDL100  | 1400      | BDL100 | BDL100 | BDL100    |               |
|                      | 03/16/89     | BDL100   | BDL100  | 1000      | BDL100 | 190    | BDL100    |               |
|                      | 06/23/89     | BDL100   | BDL100  | 300       | BDL100 | 260    | BDL100    |               |
|                      | 09/18/89     | BDL100   | BDL100  | 1200      | BDL100 | 310    | BDL100    |               |
|                      | 12/19/89     | 150      | BDL100  | 1000      | BDL100 | 320    | BDL100    |               |
|                      | 03/21/90     | BDL100   | BDL100  | 1400      | BDL100 | 430    | BDL100    |               |
|                      | 04/23/90     | BDL100   | BDL100  | 670       | BDL100 | 250    | BDL100    |               |
|                      | 05/22/90     | BDL100   | BDL100  | 660       | BDL100 | 260    | BDL100    |               |
|                      | 06/28/90     | 96       | BDL50   | 790       | BDL50  | 240    | BDL50     |               |
|                      | 07/26/90     | BDL50    | BDL50   | 980       | BDL50  | 370    | BDL50     |               |
|                      | GALSON       | 09/20/90 | 110     | BDL50     | 720    | BDL50  | 400       | BDL50         |
| 12/12/90             |              | BDL50    | BDL50   | 840       | BDL50  | 370    | BDL50     |               |
| 03/19/91             |              | 310      | BDL50   | 850       | BDL50  | 400    | BDL50     | 94 DCM *      |
| 06/19/91             |              | 64       | BDL50   | 440       | BDL50  | 320    | BDL50     | 74 DCM        |
| 09/25/91             |              | 60       | BDL50   | 770       | BDL50  | 260    | BDL50     |               |
| 12/19/91             |              | BDL50    | BDL50   | 790       | BDL50  | 320    | BDL50     |               |
| 01/24/92             |              | 78       | BDL50   | 770       | BDL50  | 300    | BDL50     | 63 DCM        |
| 04/24/92             |              | 65       | BDL50   | 510       | BDL50  | 290    | BDL50     |               |
| 08/27/92             |              | 61       | 11      | 410       | BDL5   | 250    | 7.3       | 6.0 DCM *     |
| MW-6S                |              | 10/06/86 | 6       | BDL1      | 160    | BDL1   | BDL1      | BDL1          |
|                      | 12/22/86     | 38       | BDL10   | 160       | BDL10  | TR<10  | BDL10     |               |
|                      | 03/18/87     | 14       | TR<5    | 58        | TR<5   | 11     | BDL5      |               |
|                      | 04/22/87     | 1        | 3       | 51        | TR<1   | 11     | BDL1      |               |
|                      | 05/22/87     | 20       | 5       | 79        | TR<1   | 13     | BDL1      |               |
|                      | 06/24/87     | 11       | BDL1    | 42        | 1      | 12     | BDL1      |               |
|                      | 08/25/87     | BDL1     | 1       | 24        | BDL1   | 5      | BDL1      |               |
|                      | 09/24/87     | BDL5     | BDL1    | 9         | 19     | 6      | BDL1      |               |
|                      | 10/23/87     | BDL1     | 4       | 57        | BDL1   | 6      | BDL1      |               |
|                      | 11/25/87     | BDL1     | 4       | 78        | BDL1   | 7      | BDL1      |               |
|                      | 12/31/87     | BDL1     | 4       | 85        | BDL1   | 7      | BDL1      |               |
|                      | 01/29/88     | BDL1     | 2       | 60        | BDL1   | BDL1   | BDL1      |               |
|                      | 02/25/88     | BDL1     | BDL1    | 95        | BDL1   | 14     | BDL1      |               |
|                      | 03/23/88     | 2        | 3       | 99        | BDL1   | 14     | BDL1      |               |
|                      | 04/15/88     | BDL5     | BDL5    | 66        | 6      | 10     | BDL5      |               |
|                      | 05/17/88     | BDL5     | BDL5    | BDL5      | BDL5   | 11     | BDL5      |               |
|                      | 06/20/88     | BDL10    | BDL10   | 85        | BDL10  | 24     | BDL10     |               |
|                      | 07/25/88     | DRY      | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                      | 08/22/88     | DRY      | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                      | 09/28/88     | DRY      | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                      | 10/25/88     | DRY      | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                      | 11/28/88     | DRY      | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                      | 12/20/88     | DRY      | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                      | (continued)  | 03/16/89 | BDL10   | BDL10     | 84     | BDL10  | BDL10     | BDL10         |



**MILLER CONTAINER**  
**GROUND WATER DATA - KEY PARAMETERS**

| WELL NO.             | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|----------------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| (continued)<br>MW-6S | 06/22/89     | BDL10   | BDL10   | 150       | BDL10  | 12     | BDL10     |               |
|                      | 07/19/89     | BDL10   | BDL10   | 86        | BDL10  | 25     | BDL10     |               |
|                      | 08/24/89     | BDL10   | BDL10   | 29        | BDL10  | BDL10  | BDL10     |               |
|                      | 09/18/89     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                      | 10/24/89     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                      | 11/22/89     | BDL10   | BDL10   | 79        | BDL10  | BDL10  | BDL10     |               |
|                      | 12/19/89     | BDL10   | BDL10   | 100       | BDL10  | BDL10  | BDL10     |               |
|                      | 01/23/90     | BDL10   | BDL10   | 140       | BDL10  | BDL10  | BDL10     |               |
|                      | 02/21/90     | 10      | BDL10   | 190       | BDL10  | BDL10  | BDL10     |               |
|                      | 03/21/90     | BDL10   | BDL10   | 190       | BDL10  | BDL10  | BDL10     |               |
|                      | 04/23/90     | 21      | BDL10   | 280       | BDL10  | 12     | BDL10     |               |
|                      | 05/22/90     | 18      | BDL10   | 350       | BDL10  | 10     | BDL10     |               |
|                      | 06/28/90     | BDL10   | BDL10   | 73        | BDL10  | BDL10  | BDL10     |               |
|                      | 07/26/90     | BDL10   | BDL10   | 89        | BDL10  | BDL10  | BDL10     |               |
|                      | 12/12/90     | BDL5    | BDL5    | 210       | BDL5   | 19     | BDL5      |               |
| GALSON               | 03/19/91     | 42      | BDL5    | 130       | BDL5   | 13     | BDL5      | 9.7 DCM •     |
|                      | 04/30/91     | 140     | 9.5     | 510       | BDL5   | 110    | BDL5      |               |
|                      | 05/31/91     | 15      | BDL5    | 150       | BDL5   | 17     | BDL5      | 11 DCM •      |
|                      | 06/19/91     | 9.3     | BDL5    | 88        | BDL5   | 15     | BDL5      | 6.3 DCM       |
|                      | 07/24/91     | BDL5    | BDL5    | 57        | BDL5   | 12     | BDL5      |               |
|                      | 08/28/91     | 3.2     | BDL5    | 10        | BDL5   | 2.9    | BDL5      | 0.8 • DCM     |
|                      | 09/26/91     | 4.2     | 1       | 79        | BDL5   | 8.1    | BDL5      | 1.4 DCM •     |
|                      | 10/24/91     | 2.5     | 1.2     | 62        | BDL0.5 | 12     | BDL0.5    |               |
|                      | 11/21/91     | 2.1     | 1.7     | 61        | BDL0.5 | 11     | BDL0.5    |               |
|                      | 12/19/91     | 34      | 2.8     | 150       | BDL0.5 | 34     | BDL0.5    | 0.9 DCM •     |
|                      | 01/24/92     | 8.0     | 0.7     | 46        | BDL0.5 | 12     | BDL0.5    | 0.7 DCM       |
|                      | 04/24/92     | 300     | BDL25   | 1000      | BDL25  | 580    | BDL25     | 180 DCM       |
|                      | 08/27/92     | 24      | BDL5    | 150       | BDL5   | 57     | BDL5      | 13 DCM •      |
|                      |              |         |         |           |        |        |           |               |
|                      |              |         |         |           |        |        |           |               |
| MW-6I                | 10/06/86     | 42      | BDL1    | 500       | BDL1   | 92     | BDL1      |               |
|                      | 12/22/86     | 2100    | TR<10   | 210       | BDL10  | 14     | BDL10     |               |
|                      | 03/18/87     | 150     | BDL50   | 290       | BDL50  | TR<50  | BDL50     |               |
|                      | 04/22/87     | TR<100  | BDL100  | 290       | BDL100 | TR<100 | BDL100    |               |
|                      | 05/22/87     | 240     | BDL50   | 510       | BDL50  | 63     | BDL50     |               |
|                      | 06/24/87     | 40      | BDL20   | 280       | BDL20  | 30     | BDL20     |               |
|                      | 07/22/87     | 80      | BDL50   | 250       | TR<50  | 61     | BDL50     |               |
|                      | 08/25/87     | BDL50   | BDL50   | 180       | BDL50  | TR<50  | BDL50     |               |
|                      | 09/24/87     | TR<50   | BDL50   | TR<50     | BDL50  | BDL50  | BDL50     |               |
|                      | 10/23/87     | BDL50   | BDL50   | 260       | 80     | BDL50  | BDL50     |               |
|                      | 11/25/87     | BDL50   | BDL50   | 260       | BDL50  | BDL50  | BDL50     |               |
|                      | 12/31/87     | BDL50   | BDL50   | 290       | BDL50  | BDL50  | BDL50     |               |
|                      | 01/29/88     | BDL50   | BDL50   | 340       | BDL50  | BDL50  | BDL50     |               |
|                      | 02/25/88     | BDL20   | BDL20   | 270       | BDL20  | 41     | BDL20     |               |
|                      | 03/23/88     | BDL10   | BDL10   | 180       | BDL10  | BDL10  | BDL10     |               |
|                      | 04/15/88     | BDL10   | BDL10   | 330       | BDL10  | BDL10  | BDL10     |               |
|                      | 05/17/88     | 19      | BDL10   | 270       | BDL10  | 15     | BDL10     |               |
|                      | 06/20/88     | BDL10   | BDL10   | 240       | BDL10  | 24     | BDL10     |               |
|                      | 07/25/88     | BDL10   | BDL10   | 50        | BDL10  | BDL10  | BDL10     |               |
|                      | 08/22/88     | BDL10   | BDL10   | 110       | BDL10  | 16     | BDL10     |               |
|                      | 09/23/88     | BDL10   | BDL10   | 140       | BDL10  | 13     | BDL10     |               |
|                      | 10/25/88     | BDL10   | BDL10   | 110       | BDL10  | 15     | BDL10     |               |
|                      | 11/28/88     | BDL10   | BDL10   | 110       | BDL10  | BDL10  | BDL10     |               |
| (continued)          | 12/20/88     | BDL10   | BDL10   | 140       | BDL10  | BDL10  | BDL10     |               |

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO.             | DATE SAMPLED | 1,1-DCE  | 1,1-DCA | 1,1,1-TCA | TCE   | TTCE  | c-1,2-DCE | MISCELLANEOUS |           |
|----------------------|--------------|----------|---------|-----------|-------|-------|-----------|---------------|-----------|
| (continued)<br>MW-6I | 03/16/89     | BDL10    | BDL10   | 140       | BDL10 | BDL10 | BDL10     |               |           |
|                      | 06/22/89     | BDL10    | BDL10   | 200       | BDL10 | 16    | BDL10     |               |           |
|                      | 07/19/89     | BDL10    | BDL10   | 180       | BDL10 | 39    | BDL10     |               |           |
|                      | 08/24/89     | 25       | BDL10   | 170       | BDL10 | 42    | BDL10     |               |           |
|                      | 09/18/89     | BDL10    | BDL10   | 150       | BDL10 | BDL10 | BDL10     |               |           |
|                      | 10/24/89     | BDL10    | BDL10   | 130       | BDL10 | BDL10 | BDL10     |               |           |
|                      | 11/22/89     | 32       | BDL10   | 220       | BDL10 | 68    | BDL10     |               |           |
|                      | 12/19/89     | 71       | BDL10   | 280       | BDL10 | 78    | BDL10     |               |           |
|                      | 01/23/90     | 150      | BDL10   | 510       | BDL10 | 260   | BDL10     |               |           |
|                      | 02/21/90     | 170      | BDL10   | 680       | BDL10 | 260   | BDL10     |               |           |
|                      | 03/21/90     | 250      | BDL20   | 900       | BDL20 | 500   | BDL20     |               |           |
|                      | 04/23/90     | 340      | BDL20   | 1100      | BDL20 | 490   | BDL20     |               |           |
|                      | 05/22/90     | 590      | BDL20   | 1200      | BDL20 | 620   | BDL20     |               |           |
|                      | 06/28/90     | 160      | BDL20   | 680       | BDL20 | 280   | BDL20     |               |           |
|                      | 07/26/90     | 150      | BDL20   | 650       | BDL20 | 290   | BDL20     |               |           |
|                      | 09/20/90     | 34       | BDL20   | 390       | BDL20 | 51    | BDL20     |               |           |
|                      | 12/12/90     | 110      | BDL20   | 460       | BDL20 | 160   | BDL20     |               |           |
|                      | GALSON       | 03/19/91 | 710     | BDL50     | 1100  | BDL50 | 430       | BDL50         | 110 DCM * |
|                      |              | 04/30/91 | 480     | BDL50     | 1300  | BDL50 | 590       | BDL50         |           |
|                      |              | 05/31/91 | 2100    | BDL50     | 3300  | BDL50 | 1500      | BDL50         | 430 DCM * |
| 06/19/91             |              | 640      | BDL50   | 960       | BDL50 | 990   | BDL50     | 86 DCM        |           |
| 07/24/91             |              | 780      | BDL50   | 1500      | BDL50 | 640   | BDL50     | 96 DCM        |           |
| 08/28/91             |              | 300      | BDL50   | 900       | BDL50 | 270   | BDL50     |               |           |
| 09/26/91             |              | 190      | BDL50   | 1100      | BDL50 | 230   | BDL50     | 160 DCM *     |           |
| 10/24/91             |              | 290      | BDL50   | 1100      | 1100  | 590   | BDL50     | 110 DCM       |           |
| 11/21/91             |              | 190      | BDL50   | 740       | BDL50 | 370   | BDL50     |               |           |
| 12/19/91             |              | 180      | BDL50   | 1300      | BDL50 | 1000  | BDL50     |               |           |
| 01/24/92             |              | 640      | BDL50   | 1700      | BDL50 | 1300  | BDL50     | 61 DCM        |           |
| 02/20/92             |              | 600      | BDL50   | 1800      | BDL50 | 1300  | BDL50     | 50 DCM *      |           |
| 03/25/92             |              | 720      | BDL50   | 2100      | BDL50 | 1100  | BDL50     | 52 DCM        |           |
| 04/24/92             |              | 740      | BDL50   | 1700      | BDL50 | 1400  | BDL50     | 50 DCM        |           |
| 08/27/92             |              | 320      | BDL50   | 1100      | BDL50 | 770   | BDL50     | 52 DCM *      |           |
| MW-6D                |              | 10/06/86 | BDL1    | BDL1      | 260   | 23    | 400       | BDL1          |           |
|                      | 12/22/86     | BDL10    | 19      | 290       | 19    | 210   | BDL10     |               |           |
|                      | 03/18/87     | 52       | 14      | 210       | 18    | BDL10 | BDL10     |               |           |
|                      | 04/22/87     | 22       | 13      | 170       | 10    | 170   | BDL10     |               |           |
|                      | 05/22/87     | 28       | 22      | 240       | 15    | 150   | BDL10     |               |           |
|                      | 06/24/87     | TR<10    | 16      | 240       | 21    | 140   | BDL10     |               |           |
|                      | 07/22/87     | 19       | 37      | 200       | 33    | 160   | BDL10     |               |           |
|                      | 08/25/87     | 14       | 8       | 130       | TR<10 | 130   | BDL10     |               |           |
|                      | 09/24/87     | TR<50    | 86      | 1300      | 86    | 1300  | BDL50     |               |           |
|                      | 10/23/87     | BDL10    | 23      | 190       | 13    | 200   | BDL10     |               |           |
|                      | 11/25/87     | BDL10    | 14      | 220       | 13    | 180   | BDL10     |               |           |
|                      | 12/31/87     | BDL10    | 22      | 170       | 20    | 120   | BDL10     |               |           |
|                      | 01/29/88     | BDL10    | 24      | 310       | 15    | 250   | BDL10     |               |           |
|                      | 02/25/88     | BDL10    | BDL10   | 220       | 13    | 230   | BDL10     |               |           |
|                      | 03/23/88     | BDL10    | 20      | 280       | BDL10 | 220   | BDL10     |               |           |
|                      | 04/15/88     | 12       | 24      | 300       | BDL10 | 190   | BDL10     |               |           |
|                      | 05/17/88     | 20       | 18      | 280       | 16    | 260   | BDL10     |               |           |
|                      | 06/20/88     | BDL10    | 31      | 200       | BDL10 | 200   | BDL10     |               |           |
|                      | 07/25/88     | 14       | BDL10   | 170       | BDL10 | 140   | BDL10     |               |           |
|                      | (continued)  | 08/22/88 | BDL10   | 21        | 230   | TR<10 | 160       | BDL10         |           |

**MILLER CONTAINER**  
**GROUND WATER DATA - KEY PARAMETERS**

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE   | TTCE | c-1,2-DCE | MISCELLANEOUS |
|-------------|--------------|---------|---------|-----------|-------|------|-----------|---------------|
| (continued) | 09/23/88     | 14      | 30      | 240       | BDL10 | 190  | BDL10     |               |
| MW-6D       | 10/25/88     | BDL10   | BDL10   | 170       | BDL10 | 120  | BDL10     |               |
|             | 11/28/88     | 10      | 11      | 190       | BDL10 | 140  | BDL10     |               |
|             | 12/20/88     | 34      | BDL10   | 180       | BDL10 | 150  | BDL10     |               |
|             | 01/25/89     | BDL10   | 11      | 130       | BDL10 | 63   | BDL10     |               |
|             | 02/22/89     | BDL10   | 11      | 180       | BDL10 | 120  | BDL10     |               |
|             | 03/16/89     | BDL10   | 20      | 150       | BDL10 | 79   | BDL10     |               |
|             | 04/21/89     | BDL10   | 26      | 180       | BDL10 | 110  | BDL10     |               |
|             | 05/22/89     | BDL10   | 18      | 270       | 12    | 100  | BDL10     |               |
|             | 06/22/89     | BDL10   | 33      | 330       | BDL10 | 130  | BDL10     |               |
|             | 07/19/89     | 64      | 74      | 300       | 17    | 280  | BDL10     |               |
|             | 08/24/89     | 16      | 15      | 160       | BDL10 | 110  | BDL10     |               |
|             | 09/18/89     | 26      | 27      | 220       | BDL10 | 150  | BDL10     |               |
|             | 10/24/89     | 16      | 25      | 150       | BDL10 | 120  | BDL10     |               |
|             | 11/22/89     | BDL10   | 27      | 210       | BDL10 | 150  | BDL10     |               |
|             | 12/19/89     | 25      | 22      | 190       | BDL10 | 130  | BDL10     |               |
|             | 01/23/90     | 23      | 21      | 150       | BDL10 | 96   | BDL10     |               |
|             | 02/21/90     | 23      | 30      | 280       | BDL10 | 110  | BDL10     |               |
|             | 03/21/90     | 20      | 34      | 230       | BDL10 | 130  | BDL10     |               |
|             | 04/23/90     | 30      | 44      | 250       | BDL10 | 95   | BDL10     |               |
|             | 05/22/90     | 37      | 45      | 350       | BDL10 | 95   | 86        |               |
|             | 06/28/90     | 24      | 21      | 290       | 12    | 110  | 63        |               |
|             | 07/26/90     | 42      | 500     | 310       | BDL10 | 120  | 97        |               |
|             | 09/20/90     | 27      | 29      | 150       | BDL10 | 120  | 73        |               |
|             | 12/12/90     | 21      | 34      | 240       | BDL10 | 130  | 67        |               |
| UPSTATE     | 01/14/91     | 31      | 46      | 280       | BDL10 | 140  | 74        |               |
| GALSON      | 01/14/91     | 63      | 36      | 210       | 6     | 96   | 106       |               |
| UPSTATE     | 01/30/91     | 35      | 38      | 240       | BDL10 | 150  | 65        | 12 DCM        |
| GALSON      | 01/30/91     | 96      | 45      | 250       | 9.2   | 140  | 120       | 5.0 DCM       |
| UPSTATE     | 02/27/91     | 31      | 45      | 210       | BDL10 | 100  | 81        |               |
|             | 02/27/91     | 72      | 40      | 210       | 7.7   | 110  | 110       | 45 DCM        |
| GALSON      | 03/19/91     | 43      | 87      | 220       | 7.8   | 120  | 73        | 12 DCM *      |
|             | 04/30/91     | 50      | 40      | 200       | 7.6   | 110  | 65        |               |
|             | 05/31/91     | 33      | 38      | 200       | 5     | 100  | 63        | 49 DCM *      |
|             | 06/19/91     | 26      | 17      | 93        | 5.9   | 120  | 41        |               |
|             | 07/24/91     | 37      | 24      | 140       | BDL5  | 640  | 31        | 6.1 DCM       |
|             | 08/28/91     | 21      | 30      | 140       | BDL5  | 270  | BDL5      | 22* DCM       |
|             | 09/26/91     | 21      | 32      | 110       | BDL5  | 110  | 27        |               |
|             | 10/24/91     | 15      | 23      | 100       | 6.1   | 97   | 29        | 12 DCM        |
|             | 11/21/91     | 11      | 23      | 100       | BDL5  | 99   | 27        |               |
|             | 12/19/91     | 27      | 35      | 210       | 8.5   | 130  | 45        |               |
|             | 01/24/92     | 20      | 25      | 120       | 6.1   | 100  | 32        | 5.0 DCM       |
|             | 04/24/92     | 20      | 24      | 110       | 6.2   | 95   | 42        |               |
|             | 08/27/92     | 9.9     | 16      | 54        | BDL5  | 64   | 17        | 12 DCM *      |

**MILLER CONTAINER**  
**GROUND WATER DATA - KEY PARAMETERS**

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|-------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| MW-7S       | 09/29/86     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/22/86     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 03/18/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 06/25/87     | BDL5    | BDL1    | TR<1      | BDL1   | BDL1   | BDL1      |               |
|             | 09/23/87     | BDL5    | BDL1    | 1         | BDL1   | BDL1   | BDL1      |               |
|             | 12/31/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 03/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 06/20/88     | 7       | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 09/23/88     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|             | 12/20/88     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|             | 03/16/89     | BDL1    | BDL1    | 3         | BDL1   | 3      | BDL1      |               |
|             | 06/22/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 09/18/89     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|             | 12/19/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 03/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
| GALSON      | 03/20/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-7D       | 09/29/86     | BDL1    | BDL1    | BDL1      | TR<1   | BDL1   | BDL1      |               |
|             | 12/22/86     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 03/18/87     | BDL1    | TR<1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 06/25/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 09/23/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/31/87     | BDL1    | BDL1    | 2         | BDL1   | 3      | BDL1      |               |
|             | 01/29/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 03/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 06/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 07/25/88     | BDL1    | BDL1    | 1         | BDL1   | BDL1   | BDL1      |               |
|             | 09/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 03/16/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 06/22/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 09/18/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/19/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 01/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 03/21/90     | BDL1    | BDL1    | 2         | BDL1   | BDL1   | BDL1      |               |
|             | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 09/20/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
| GALSON      | 03/20/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| (continued) | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |



## GROUND WATER DATA - KEY PARAMETERS

[illegible]

**MILLER CONTAINER**  
**GROUND WATER DATA - KEY PARAMETERS**

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE   | TTCE  | c-1,2-DCE | MISCELLANEOUS |
|-------------|--------------|---------|---------|-----------|-------|-------|-----------|---------------|
| MW-8D       | 09/22/86     | BDL1    | 3       | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 12/22/86     | BDL5    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 02/06/87     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 03/18/87     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 04/22/87     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 05/22/87     | BDL5    | BDL1    | TR<1      | BDL1  | BDL1  | BDL1      |               |
|             | 06/24/87     | BDL5    | BDL1    | TR<1      | BDL1  | BDL1  | BDL1      |               |
|             | 07/22/87     | BDL5    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 08/25/87     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 09/23/87     | BDL5    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 10/23/87     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 11/25/87     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 12/31/87     | BDL1    | BDL1    | 2         | BDL1  | BDL1  | BDL1      |               |
|             | 01/29/88     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 02/25/88     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 03/22/88     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 04/15/88     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 05/17/88     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 06/20/88     | BDL1    | BDL1    | BDL1      | BDL1  | 13    | BDL1      |               |
|             | 07/25/88     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 08/22/88     | BDL1    | BDL1    | BDL1      | BDL1  | 3     | BDL1      |               |
|             | 09/22/88     | BDL1    | BDL1    | BDL1      | BDL1  | BDL1  | BDL1      |               |
|             | 10/25/88     | BDL1    | BDL1    | 2         | BDL1  | BDL1  | BDL1      |               |
|             | 11/28/88     | BDL1    | BDL1    | 21        | BDL1  | BDL1  | BDL1      |               |
|             | 12/20/88     | BDL1    | BDL1    | 65        | BDL1  | BDL1  | BDL1      |               |
|             | 01/25/89     | BDL1    | BDL1    | 23        | BDL1  | BDL1  | BDL1      |               |
|             | 02/22/89     | BDL1    | BDL1    | 9         | BDL1  | BDL1  | BDL1      |               |
|             | 03/16/89     | BDL1    | BDL1    | 13        | BDL1  | BDL1  | BDL1      |               |
|             | 04/21/89     | BDL1    | BDL1    | 12        | 12    | BDL1  | BDL1      |               |
|             | 05/22/89     | BDL1    | BDL1    | 24        | 2     | BDL1  | BDL1      |               |
|             | 06/22/89     | BDL1    | BDL1    | 88        | BDL1  | BDL1  | BDL1      |               |
|             | 07/19/89     | BDL1    | BDL1    | 97        | BDL1  | 2     | BDL1      |               |
|             | 08/24/89     | BDL1    | BDL1    | 91        | BDL1  | BDL1  | BDL1      |               |
|             | 09/18/89     | BDL1    | BDL1    | 42        | BDL1  | 1     | BDL1      |               |
|             | 10/24/89     | BDL5    | BDL5    | 95        | BDL5  | BDL5  | BDL5      |               |
|             | 11/22/89     | BDL10   | BDL10   | 280       | BDL10 | BDL10 | BDL10     |               |
|             | 12/19/89     | BDL10   | BDL10   | 130       | BDL10 | BDL10 | BDL10     |               |
|             | 01/23/90     | 3       | BDL1    | 74        | BDL1  | 5     | BDL1      |               |
|             | 02/21/90     | BDL5    | BDL5    | 75        | BDL5  | BDL5  | BDL5      |               |
|             | 03/21/90     | BDL5    | BDL5    | 100       | BDL5  | BDL5  | BDL5      |               |
|             | 04/23/90     | BDL5    | BDL5    | 89        | BDL5  | BDL5  | BDL5      |               |
|             | 05/22/90     | BDL5    | BDL5    | 250       | BDL5  | BDL5  | BDL5      |               |
|             | 06/28/90     | 6       | BDL5    | 190       | BDL5  | 6     | BDL5      |               |
|             | 07/25/90     | BDL5    | BDL5    | 140       | BDL5  | 21    | BDL5      |               |
|             | 08/23/90     | 6       | BDL1    | 77        | BDL1  | 10    | BDL1      |               |
|             | 09/20/90     | 5       | BDL5    | 58        | BDL5  | 11    | BDL5      |               |
| (continued) | 10/23/90     | BDL5    | BDL5    | 79        | BDL5  | BDL5  | BDL5      |               |

**MILLER CONTAINER**  
**GROUND WATER DATA – KEY PARAMETERS**

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS         |
|-------------|--------------|---------|---------|-----------|--------|--------|-----------|-----------------------|
| (continued) | 11/13/90     | BDL5    | BDL5    | 98        | BDL5   | 8      | BDL5      |                       |
| MW-8D       | 12/11/90     | BDL5    | BDL5    | 140       | BDL5   | 10     | BDL5      |                       |
|             | 01/30/91     | 110     | 7.7     | 450       | BDL5   | 54     | BDL5      | 47 DCM                |
| UPSTATE     | 02/27/91     | 43      | BDL20   | 660       | BDL20  | 120    | BDL20     | 76 DCM                |
| GALSON      | 02/27/91     | 160     | 7.8     | 500       | BDL5   | 77     | BDL5      | 91 DCM *, 5.5 Toluene |
| GALSON      | 03/20/91     | 140     | 7.4     | 450       | BDL5   | 86     | BDL5      | 58 DCM *              |
|             | 04/29/91     | 197     | 6.3     | 390       | BDL5   | 58     | BDL5      | 33 DCM                |
|             | 05/30/91     | BDL5    | BDL5    | 370       | BDL5   | 97     | BDL5      | 25 DCM *              |
|             | 06/17/91     | 42      | BDL5    | 260       | BDL5   | 77     | BDL5      | 18 DCM                |
|             | 07/24/91     | 43      | BDL5    | 190       | BDL5   | 39     | BDL5      | 13 DCM                |
|             | 08/27/91     | 23      | BDL5    | 140       | BDL5   | 33     | BDL5      | 43 DCM *              |
|             | 09/25/91     | 13      | BDL5    | 120       | BDL5   | 30     | BDL5      |                       |
|             | 10/24/91     | 8.1     | BDL5    | 62        | BDL5   | 30     | BDL5      | 13 DCM                |
|             | 11/21/91     | 7.2     | BDL5    | 47        | BDL5   | 22     | BDL5      |                       |
|             | 12/17/91     | 8.8     | 0.5     | 55        | BDL0.5 | 23     | BDL0.5    | 2.8 DCM *             |
|             | 01/23/92     | 6.6     | 0.9     | 54        | BDL0.5 | 18     | BDL0.5    | 2.8 DCM               |
|             | 02/20/92     | 11      | 1.1     | 120       | BDL0.5 | 23     | BDL0.5    | 2.3 DCM               |
|             | 03/24/92     | 12      | BDL5    | 180       | BDL5   | 21     | BDL5      | 7.0 DCM               |
|             | 04/22/92     | 45      | 7.6     | 620       | BDL5   | 56     | BDL5      | 24 DCM                |
|             | 08/26/92     | 17      | BDL5    | 130       | BDL5   | 42     | BDL5      | 8.0 DCM *             |
| MW-9S       | 09/24/86     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 12/22/86     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 02/06/87     | BDL1    | BDL1    | TR<1      | BDL1   | BDL1   | BDL1      |                       |
|             | 03/18/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 06/24/87     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |                       |
|             | 09/23/87     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |                       |
|             | 12/31/87     | BDL1    | BDL1    | BDL1      | 1      | BDL1   | BDL1      |                       |
|             | 03/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 06/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 09/22/88     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |                       |
|             | 12/20/88     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |                       |
|             | 03/16/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 06/22/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 09/18/89     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |                       |
|             | 12/19/89     | BDL1    | BDL1    | 3         | BDL1   | BDL1   | BDL1      |                       |
|             | 01/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 03/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
|             | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                       |
| GALSON      | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                       |
|             | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                       |
|             | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                       |
|             | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                       |
|             | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                       |
|             | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                       |

**MILLER CONTAINER**  
**GROUND WATER DATA - KEY PARAMETERS**

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| MW-9D    | 09/24/86     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 12/22/86     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 03/18/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 06/24/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 09/23/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 12/31/87     | BDL1    | BDL1    | BDL1      | 4      | BDL1   | BDL1      |               |
|          | 01/29/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 03/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 06/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 09/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 12/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 03/16/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 06/22/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 09/18/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 12/19/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 03/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 09/20/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|          | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
| GALSON   | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|          | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |

# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE  | TTCE | c-1,2-DCE | MISCELLANEOUS |
|-------------|--------------|---------|---------|-----------|------|------|-----------|---------------|
| MW-10S      | 09/18/86     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 12/09/86     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 12/22/86     | BDL5    | BDL1    | BDL1      | BDL1 | 1    | BDL5      |               |
|             | 02/06/87     | BDL1    | BDL1    | TR<1      | BDL1 | TR<1 | BDL1      |               |
|             | 03/18/87     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 04/22/87     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 05/22/87     | BDL5    | BDL1    | 2         | BDL1 | 2    | BDL5      |               |
|             | 06/25/87     | BDL5    | BDL1    | 1         | BDL1 | BDL1 | BDL5      |               |
|             | 07/22/87     | BDL5    | BDL1    | BDL1      | BDL1 | 1    | BDL5      |               |
|             | 08/25/87     | BDL1    | BDL1    | TR<1      | BDL1 | TR<1 | BDL1      |               |
|             | 09/23/87     | BDL5    | BDL1    | 1         | BDL1 | BDL1 | BDL5      |               |
|             | 10/23/87     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 11/25/87     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 12/31/87     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 01/29/88     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 02/25/88     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 03/22/88     | BDL1    | BDL1    | 1         | BDL1 | BDL1 | BDL1      |               |
|             | 04/15/88     | BDL1    | BDL1    | 2         | 3    | 3    | BDL1      |               |
|             | 05/17/88     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 06/20/88     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 07/25/88     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 08/22/88     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 09/22/88     | BDL1    | BDL1    | BDL1      | BDL1 | 1    | BDL1      |               |
|             | 10/25/88     | DRY     | DRY     | DRY       | DRY  | DRY  | DRY       |               |
|             | 11/28/88     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 12/20/88     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 01/25/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 02/22/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 03/16/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 04/21/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 05/22/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 06/22/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 07/19/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 08/24/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 09/18/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 10/24/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 11/22/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 12/19/89     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 01/23/90     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 02/21/90     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 03/21/90     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 06/28/90     | BDL1    | BDL1    | TR<1      | BDL1 | TR<1 | BDL1      |               |
|             | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 09/20/90     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
|             | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1 | BDL1 | BDL1      |               |
| (continued) | 12/11/90     | BDL1    | BDL1    | 3         | BDL1 | 2    | BDL1      |               |



# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.       | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|----------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| UPSTATE GALSON | 01/30/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
| GALSON         | 01/30/91     | BDL0.5  | BDL0.5  | 0.5       | BDL0.5 | 0.7    | BDL0.5    |               |
| GALSON         | 02/26/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | 0.7    | BDL0.5    | 1.1 DCM *     |
| GALSON         | 03/18/91     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | 1.3    | BDL0.5    |               |
| (continued)    | 04/29/91     | BDL0.5  | BDL0.5  | 2         | BDL0.5 | 1.6    | BDL0.5    |               |
| MW-10S         | 05/31/91     | BDL0.5  | BDL0.5  | 1.1       | BDL0.5 | 1.2    | BDL0.5    | 1.7 DCM *     |
|                | 06/17/91     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | 1.3    | BDL0.5    |               |
|                | 07/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | 0.7    | BDL0.5    |               |
|                | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                | 10/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.4 DCM       |
|                | 04/21/92     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | 1.2    | BDL0.5    | 1.5 DCM *     |
|                | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-10D         | 09/18/86     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 12/09/86     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 12/22/86     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                | 02/06/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 03/18/87     | BDL5    | BDL1    | TR<1      | BDL1   | BDL1   | BDL5      |               |
|                | 04/22/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 05/22/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                | 06/25/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                | 07/22/87     | BDL5    | 1       | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                | 08/25/87     | BDL1    | BDL1    | BDL1      | BDL1   | 2      | BDL1      |               |
|                | 09/23/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                | 10/23/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 11/25/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 12/31/87     | BDL1    | BDL1    | BDL1      | 1      | BDL1   | BDL1      |               |
|                | 01/29/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 02/25/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 03/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 04/15/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 05/17/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 06/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 07/25/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 08/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 09/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 10/25/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 11/28/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 12/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 01/25/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 02/22/89     | 2       | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 03/16/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 04/21/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 05/22/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 06/22/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 07/19/89     | BDL1    | BDL1    | 4         | BDL1   | BDL1   | BDL1      |               |
| (continued)    | 08/07/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |

# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|-------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| (continued) | 08/24/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
| MW-10D      | 09/01/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 09/08/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 09/18/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 10/24/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 11/22/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/19/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 01/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 02/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 03/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
| GALSON      | 01/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| GALSON      | 02/26/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM *     |
| GALSON      | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 04/29/91     | BDL0.5  | 0.5     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 05/31/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM *     |
|             | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM       |
|             | 07/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 10/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.8 DCM       |
|             | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM       |
|             | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-11S      | 10/06/86     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/22/86     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|             | 03/18/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|             | 06/24/87     | BDL5    | BDL1    | TR<1      | BDL1   | BDL1   | BDL5      |               |
|             | 09/23/87     | BDL5    | BDL1    | 12        | BDL1   | 8      | BDL5      |               |
|             | 10/23/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 11/25/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/31/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 03/22/88     | BDL1    | BDL1    | 1         | BDL1   | BDL1   | BDL1      |               |
|             | 06/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 09/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/20/88     | BDL1    | BDL1    | 21        | BDL1   | BDL1   | BDL1      |               |
|             | 03/16/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 06/22/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
| (continued) | 09/18/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |



# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO.              | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|-----------------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| (continued)<br>MW-11S | 12/19/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      | 0.6 DCM *     |
|                       | 03/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 09/20/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 12/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
| GALSON                | 03/20/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 12/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-11D                | 10/06/86     | 3       | 2       | 180       | BDL1   | BDL1   | BDL1      |               |
|                       | 12/22/86     | 5       | 8       | 290       | BDL1   | BDL1   | BDL1      |               |
|                       | 03/18/87     | 20      | BDL10   | 190       | BDL10  | BDL10  | BDL10     |               |
|                       | 05/22/87     | BDL20   | TR<20   | 220       | BDL20  | BDL20  | BDL20     |               |
|                       | 06/24/87     | BDL20   | BDL20   | 190       | BDL20  | BDL20  | BDL20     |               |
|                       | 07/22/87     | BDL20   | 76      | 220       | BDL10  | BDL10  | BDL20     |               |
|                       | 08/25/87     | BDL20   | BDL20   | 110       | BDL20  | BDL20  | BDL20     |               |
|                       | 09/23/87     | BDL20   | BDL20   | 230       | BDL20  | BDL20  | BDL20     |               |
|                       | 10/23/87     | BDL20   | BDL20   | 230       | BDL20  | BDL20  | BDL20     |               |
|                       | 11/25/87     | BDL20   | BDL20   | 110       | BDL20  | BDL20  | BDL20     |               |
|                       | 12/31/87     | BDL20   | BDL20   | 200       | BDL20  | BDL20  | BDL20     |               |
|                       | 01/29/88     | BDL1    | 4       | 280       | BDL1   | BDL1   | BDL1      |               |
|                       | 02/25/88     | BDL50   | BDL50   | 240       | BDL50  | BDL50  | BDL50     |               |
|                       | 03/22/88     | BDL20   | BDL20   | 170       | BDL20  | BDL20  | BDL20     |               |
|                       | 04/15/88     | BDL25   | BDL25   | 180       | BDL25  | BDL25  | BDL25     |               |
|                       | 05/17/88     | 10      | BDL10   | 150       | BDL10  | BDL10  | BDL10     |               |
|                       | 06/20/88     | BDL20   | BDL20   | 255       | BDL20  | BDL20  | BDL20     |               |
|                       | 07/25/88     | BDL20   | BDL20   | 110       | BDL20  | BDL20  | BDL20     |               |
|                       | 08/22/88     | BDL20   | BDL20   | 170       | 140    | 67     | BDL20     |               |
|                       | 09/22/88     | BDL20   | BDL20   | 100       | BDL20  | BDL20  | BDL20     |               |
|                       | 10/25/88     | BDL20   | BDL20   | 160       | BDL20  | BDL20  | BDL20     |               |
|                       | 11/28/88     | BDL20   | BDL20   | 120       | BDL20  | BDL20  | BDL20     |               |
|                       | 12/20/88     | BDL20   | BDL20   | 130       | BDL20  | BDL20  | BDL20     |               |
|                       | 01/25/89     | BDL20   | BDL20   | 93        | BDL20  | BDL20  | BDL20     |               |
|                       | 02/22/89     | BDL20   | BDL20   | 180       | BDL20  | BDL20  | BDL20     |               |
|                       | 03/16/89     | BDL20   | BDL20   | 140       | BDL20  | BDL20  | BDL20     |               |
|                       | 04/21/89     | BDL20   | BDL20   | 160       | BDL20  | BDL20  | BDL20     |               |
|                       | 05/22/89     | BDL20   | BDL20   | 240       | BDL20  | BDL20  | BDL20     |               |
|                       | 06/22/89     | BDL20   | BDL20   | 220       | BDL20  | BDL20  | BDL20     |               |
|                       | 07/19/89     | BDL10   | BDL10   | 44        | BDL10  | BDL10  | BDL10     |               |
|                       | 08/24/89     | BDL20   | BDL20   | 100       | BDL20  | BDL20  | BDL20     |               |
|                       | 09/18/89     | BDL20   | BDL20   | 190       | BDL20  | BDL20  | BDL20     |               |
|                       | 10/24/89     | BDL20   | BDL20   | 160       | BDL20  | BDL20  | BDL20     |               |
| (continued)           | 11/22/89     | BDL20   | BDL20   | 150       | BDL20  | BDL20  | BDL20     |               |

# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.                                                                                             | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|------------------------------------------------------------------------------------------------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| (continued)<br>MW-11D<br><br><br><br><br><br><br><br><br><br>GALSON                                  | 12/19/89     | BDL20   | BDL20   | 200       | BDL20  | BDL20  | BDL20     |               |
|                                                                                                      | 01/23/90     | BDL20   | BDL20   | 160       | BDL20  | BDL20  | BDL20     |               |
|                                                                                                      | 02/21/90     | BDL20   | BDL20   | 180       | BDL20  | BDL20  | BDL20     |               |
|                                                                                                      | 03/21/90     | BDL20   | BDL20   | 180       | BDL20  | BDL20  | BDL20     |               |
|                                                                                                      | 04/23/90     | BDL20   | BDL20   | 150       | BDL20  | BDL20  | BDL20     |               |
|                                                                                                      | 05/22/90     | 15      | 12      | 150       | BDL5   | BDL5   | BDL5      |               |
|                                                                                                      | 06/28/90     | 16      | 15      | 190       | BDL5   | BDL5   | BDL5      |               |
|                                                                                                      | 07/25/90     | 13      | 17      | 180       | BDL5   | BDL5   | BDL5      |               |
|                                                                                                      | 09/20/90     | 13      | 15      | 200       | BDL5   | BDL5   | 14        |               |
|                                                                                                      | 12/12/90     | BDL20   | BDL20   | 240       | BDL20  | BDL20  | BDL20     |               |
|                                                                                                      | 03/20/91     | 95      | 39      | 280       | BDL5   | BDL5   | 34        | 7.8 DCM *     |
|                                                                                                      | 06/18/91     | 41      | 25      | 210       | BDL0.5 | BDL0.5 | BDL0.5    | 5.0 DCM       |
|                                                                                                      | 09/25/91     | 25      | 42      | 470       | BDL5   | BDL5   | 49        |               |
|                                                                                                      | 12/19/91     | 34      | 39      | 310       | BDL5   | BDL5   | 50        |               |
|                                                                                                      | 01/24/92     | 33      | 45      | 340       | BDL5   | 7      | 59        |               |
|                                                                                                      | 04/24/92     | 26      | 30      | 210       | BDL5   | 7.6    | 69        | 5.9 DCM       |
|                                                                                                      | 08/24/92     | 29      | 29      | 190       | BDL5   | 16     | 61        | 12 DCM *      |
| MW-12S<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>GALSON | 12/03/86     | BDL1    | BDL1    | 1         | BDL1   | 1      | BDL1      |               |
|                                                                                                      | 12/22/86     | BDL5    | BDL10   | TR<10     | BDL10  | BDL10  | BDL5      |               |
|                                                                                                      | 03/18/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                                                                                                      | 06/25/87     | BDL5    | BDL1    | 1         | 2      | BDL1   | BDL5      |               |
|                                                                                                      | 09/23/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                                                                                                      | 12/31/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 03/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 06/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 09/22/88     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                                                                                                      | 12/20/88     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                                                                                                      | 03/16/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 06/22/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 09/18/89     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |               |
|                                                                                                      | 12/19/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 03/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 07/26/90     | BDL1    | BDL1    | 2         | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 12/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                                                      | 03/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM *     |
|                                                                                                      | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                                                      | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                                                      | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                                                      | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                                                      | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                                                      | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |

# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.       | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|----------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| MW-12D         | 05/07/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 07/26/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 12/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 01/14/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 03/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM *     |
|                | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|                | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                | 08/24/92     | BDL0.5  | BDL0.5  | 7.3       | BDL0.5 | BDL0.5 | BDL0.5    |               |
| UPSTATE GALSON | 12/22/86     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                | 02/06/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 03/18/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                | 04/22/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 05/22/87     | 6       | BDL1    | 10        | BDL1   | BDL1   | BDL1      |               |
|                | 06/25/87     | BDL5    | BDL1    | 1         | BDL1   | BDL1   | BDL5      |               |
|                | 07/22/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                | 08/25/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 09/23/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                | 10/23/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 11/25/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 12/31/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 01/29/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 02/25/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 03/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 04/15/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 05/17/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 06/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 07/25/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 08/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 09/22/88     | BDL1    | BDL1    | 1         | BDL1   | BDL1   | BDL1      |               |
|                | 10/25/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 11/28/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 12/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                | 03/16/89     | BDL1    | BDL1    | 5         | BDL1   | BDL1   | BDL1      |               |
|                | 06/22/89     | BDL1    | BDL1    | 13        | BDL1   | BDL1   | BDL1      |               |
|                | 07/19/89     | BDL1    | BDL1    | 3         | BDL1   | BDL1   | BDL1      |               |
|                | 08/24/89     | BDL1    | BDL1    | 9         | BDL1   | BDL1   | BDL1      |               |
|                | 09/18/89     | BDL1    | BDL1    | 10        | BDL1   | BDL1   | BDL1      |               |
|                | 10/24/89     | BDL1    | BDL1    | 15        | BDL1   | BDL1   | BDL1      |               |
|                | 11/22/89     | BDL1    | BDL1    | 14        | BDL1   | BDL1   | BDL1      |               |
|                | 12/19/89     | BDL1    | BDL1    | 18        | BDL1   | BDL1   | BDL1      |               |
|                | 01/23/90     | BDL1    | BDL1    | 17        | BDL1   | BDL1   | BDL1      |               |
|                | 02/21/90     | BDL1    | BDL1    | 21        | BDL1   | BDL1   | BDL1      |               |
| (continued)    | 03/21/90     | BDL1    | BDL1    | 26        | BDL1   | BDL1   | BDL1      |               |

# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS        |
|-------------|--------------|---------|---------|-----------|--------|--------|-----------|----------------------|
| (continued) | 04/23/90     | BDL1    | BDL1    | 30        | BDL1   | BDL1   | BDL1      |                      |
| MW-13D      | 05/22/90     | BDL1    | BDL1    | 33        | BDL1   | BDL1   | BDL1      |                      |
|             | 06/28/90     | BDL1    | 1       | 38        | BDL1   | BDL1   | BDL1      |                      |
|             | 07/25/90     | BDL1    | BDL1    | 57        | BDL1   | BDL1   | BDL1      |                      |
|             | 08/23/90     | BDL1    | BDL1    | 40        | BDL1   | BDL1   | BDL1      |                      |
|             | 09/19/90     | BDL1    | 1       | 35        | BDL1   | BDL1   | BDL1      |                      |
|             | 10/23/90     | BDL1    | BDL1    | 35        | BDL1   | BDL1   | BDL1      |                      |
|             | 11/13/90     | BDL1    | BDL1    | 35        | BDL1   | BDL1   | BDL1      |                      |
| UPSTATE     | 12/12/90     | BDL1    | BDL1    | 35        | BDL1   | BDL1   | BDL1      |                      |
| GALSON ASP  | 12/12/90     | 2       | 2       | 36        | BDL5   | BDL5   | BDL5      |                      |
|             | 01/30/91     | 7.3     | 2.1     | 38        | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM              |
| GALSON      | 02/26/91     | 9.3     | 2.0     | 37        | BDL0.5 | BDL0.5 | 0.8       | 1.6 DCM              |
| GALSON      | 03/18/91     | 9.7     | 2.0     | 39        | BDL0.5 | BDL0.5 | BDL0.5    | 1.3 DCM              |
|             | 04/29/91     | 9.4     | 1.8     | 44        | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM              |
|             | 05/30/91     | 11      | 1.8     | 48        | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM *            |
|             | 06/17/91     | 2.1     | 1       | 29        | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM              |
|             | 07/23/91     | BDL0.5  | BDL0.5  | 34        | BDL0.5 | BDL0.5 | 3.2       | 0.8 DCM, 1.4 1,2 DCE |
|             | 08/27/91     | 5.9     | 1.8     | 39        | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM *            |
|             | 09/25/91     | 1.7     | 1.9     | 42        | BDL0.5 | BDL0.5 | BDL0.5    | 1.5 DCM              |
|             | 10/24/91     | 2.8     | 2       | 34        | BDL0.5 | BDL0.5 | BDL0.5    | 1.8 DCM              |
|             | 11/21/91     | 2.7     | 2.1     | 26        | BDL0.5 | BDL0.5 | BDL0.5    |                      |
|             | 12/17/91     | 2.7     | 1.4     | 37        | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 DCM *            |
|             | 01/23/92     | 2       | 2.1     | 35        | BDL0.5 | BDL0.5 | BDL0.5    | 1.5 DCM              |
|             | 02/20/92     | 1.9     | 1.7     | 38        | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM              |
|             | 03/24/92     | 2       | 1.7     | 37        | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 DCM              |
|             | 04/22/92     | 1.7     | 1.4     | 33        | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 DCM              |
|             | 05/28/92     | 2.2     | 1.4     | 43        | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM              |
|             | 06/30/92     | 2.4     | 1.4     | 34        | BDL0.5 | BDL0.5 | BDL0.5    | 1.3 DCM              |
|             | 07/21/92     | 1.9     | 1.1     | 32        | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM              |
|             | 08/26/92     | 1.6     | 1.1     | 24        | BDL0.5 | BDL0.5 | BDL0.5    | 1.8 DCM *            |
|             | 09/17/92     | 1.9     | 1.0     | 25        | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 DCM *            |
| MW-14S      | 12/22/86     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      | 0.7 DCM *            |
|             | 02/06/87     | BDL1    | BDL1    | TR<1      | BDL1   | BDL1   | BDL1      |                      |
|             | 03/18/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |                      |
|             | 06/25/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |                      |
|             | 09/23/87     | BDL5    | BDL1    | 2         | BDL1   | BDL1   | BDL5      |                      |
|             | 12/31/87     | BDL1    | BDL1    | 2         | BDL1   | BDL1   | BDL1      |                      |
|             | 03/22/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                      |
|             | 06/20/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                      |
|             | 09/22/88     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |                      |
|             | 12/20/88     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |                      |
|             | 03/16/89     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |                      |
|             | 05/22/89     | BDL1    | BDL1    | BDL1      | BDL1   | 2      | BDL1      |                      |
|             | 06/22/89     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |                      |
|             | 08/24/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                      |
|             | 09/18/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                      |
|             | 10/24/89     | DRY     | DRY     | DRY       | DRY    | DRY    | DRY       |                      |
|             | 11/22/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                      |
| (continued) | 12/19/89     | BDL1    | BDL1    | 6         | BDL1   | BDL1   | BDL1      |                      |

# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.              | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|-----------------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| (continued)<br>MW-14S | 01/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 02/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 03/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 12/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
| GALSON                | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM       |
|                       | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 DCM *     |
|                       | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-14D                | 12/22/86     | BDL5    | BDL1    | BDL1      | TR<1   | BDL1   | BDL5      |               |
|                       | 02/06/87     | BDL1    | BDL1    | 2         | TR<1   | TR<1   | BDL1      |               |
|                       | 03/18/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                       | 04/22/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 05/22/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                       | 06/25/87     | BDL5    | BDL1    | 1         | BDL1   | BDL1   | BDL5      |               |
|                       | 07/22/87     | BDL5    | BDL1    | BDL1      | BDL1   | BDL1   | BDL5      |               |
|                       | 08/25/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 09/23/87     | BDL5    | BDL1    | 3         | BDL1   | BDL1   | BDL5      |               |
|                       | 10/23/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 11/25/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 12/31/87     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 01/29/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 02/25/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 03/22/88     | BDL1    | BDL1    | 1         | BDL1   | BDL1   | BDL1      |               |
|                       | 04/15/88     | 2       | BDL1    | 2         | BDL1   | BDL1   | BDL1      |               |
|                       | 05/17/88     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                       | 06/20/88     | BDL1    | BDL1    | 3         | BDL1   | BDL1   | BDL1      |               |
|                       | 07/25/88     | BDL1    | BDL1    | 4         | BDL1   | BDL1   | BDL1      |               |
|                       | 08/22/88     | BDL1    | BDL1    | 6         | BDL1   | BDL1   | BDL1      |               |
|                       | 09/22/88     | BDL1    | BDL1    | 5         | BDL1   | BDL1   | BDL1      |               |
|                       | 10/25/88     | BDL1    | BDL1    | 7         | BDL1   | BDL1   | BDL1      |               |
|                       | 11/28/88     | BDL1    | BDL1    | 21        | BDL1   | BDL1   | BDL1      |               |
|                       | 12/20/88     | BDL1    | BDL1    | 26        | BDL1   | BDL1   | BDL1      |               |
|                       | 03/16/89     | BDL1    | BDL1    | 19        | BDL1   | BDL1   | BDL1      |               |
|                       | 06/22/89     | BDL10   | BDL10   | 66        | BDL10  | BDL10  | BDL10     |               |
|                       | 07/19/89     | BDL1    | BDL1    | 46        | BDL1   | BDL1   | BDL1      |               |
|                       | 08/24/89     | BDL1    | BDL1    | 51        | BDL1   | BDL1   | BDL1      |               |
|                       | 09/18/89     | BDL1    | BDL1    | 54        | BDL1   | BDL1   | BDL1      |               |
|                       | 10/24/89     | 1       | BDL1    | 82        | BDL1   | BDL1   | BDL1      |               |
|                       | 11/22/89     | BDL10   | BDL10   | 130       | BDL10  | BDL10  | BDL10     |               |
|                       | 12/19/89     | BDL5    | BDL5    | 140       | BDL5   | BDL5   | BDL5      |               |
|                       | 01/23/90     | BDL5    | BDL5    | 250       | BDL5   | BDL5   | BDL5      |               |
|                       | 02/21/90     | BDL10   | BDL10   | 210       | BDL10  | BDL10  | BDL10     |               |
| (continued)           | 03/21/90     | BDL10   | BDL10   | 150       | BDL10  | BDL10  | BDL10     |               |



# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|-------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| (continued) | 04/23/90     | BDL10   | BDL10   | 240       | BDL10  | BDL10  | BDL10     |               |
| MW-14D      | 05/22/90     | 16      | BDL10   | 380       | BDL10  | BDL10  | BDL10     |               |
|             | 06/28/90     | 21      | BDL10   | 330       | BDL10  | BDL10  | BDL10     |               |
|             | 07/25/90     | 18      | BDL10   | 310       | BDL10  | BDL10  | BDL10     |               |
|             | 08/23/90     | 26      | BDL10   | 340       | BDL10  | BDL10  | BDL10     |               |
|             | 09/20/90     | 16      | BDL10   | 300       | BDL10  | 14     | BDL10     |               |
|             | 10/23/90     | BDL10   | BDL10   | 320       | BDL10  | BDL10  | BDL10     |               |
|             | 11/14/90     | BDL10   | BDL10   | 310       | BDL10  | BDL10  | BDL10     |               |
| UPSTATE     | 12/12/90     | BDL10   | BDL10   | 360       | BDL10  | 37     | BDL10     |               |
| GALSON ASP  | 12/12/90     | 39      | BDL25   | 370       | BDL25  | 21     | BDL25     |               |
| UPSTATE     | 01/14/91     | BDL10   | BDL10   | 330       | BDL10  | 38     | BDL10     |               |
| GALSON      | 01/14/91     | 64      | BDL5    | 250       | BDL5   | 20     | BDL5      | 27 DCM *      |
| UPSTATE     | 01/30/91     | 22      | BDL10   | 330       | BDL10  | 37     | BDL10     |               |
| GALSON      | 01/30/91     | 58      | 5.2     | 230       | BDL5   | 20     | BDL5      | 19 DCM        |
| UPSTATE     | 02/27/91     | BDL10   | BDL10   | 290       | BDL10  | 38     | BDL10     |               |
| GALSON      | 02/27/91     | 66      | 5.0     | 220       | BDL5   | 22     | BDL5      | 54 DCM *      |
| GALSON      | 03/18/91     | 73      | 5.0     | 270       | BDL5   | 36     | BDL5      | 22 DCM        |
|             | 04/30/91     | 53      | 5       | 270       | BDL5   | 33     | BDL5      | 130 DCM #     |
|             | 05/30/91     | 110     | 5       | 410       | BDL5   | 73     | BDL5      | 15 DCM *      |
|             | 06/18/91     | 28      | BDL5    | 230       | BDL5   | 42     | BDL5      | 14 DCM        |
|             | 07/23/91     | 26      | BDL5    | 260       | BDL5   | 49     | BDL5      | 10 DCM        |
|             | 08/27/91     | 30      | BDL5    | 270       | BDL5   | 36     | BDL5      | 19 DCM *      |
|             | 09/24/91     | 20      | BDL5    | 280       | BDL5   | 40     | BDL5      | 41 DCM *      |
|             | 10/24/91     | 11      | BDL5    | 160       | BDL5   | 36     | BDL5      | 13 DCM        |
|             | 11/21/91     | 14      | BDL5    | 160       | BDL5   | 38     | BDL5      | 8.9 DCM *     |
|             | 12/17/91     | 12      | BDL5    | 220       | BDL5   | 51     | BDL5      | 28 DCM *      |
|             | 01/23/92     | 24      | 5       | 210       | BDL5   | 57     | BDL5      | 11 DCM        |
|             | 02/20/92     | 19      | BDL5    | 180       | BDL5   | 67     | BDL5      |               |
|             | 03/24/92     | 19      | BDL5    | 180       | BDL5   | 70     | BDL5      |               |
|             | 04/22/92     | 15      | BDL5    | 140       | BDL5   | 69     | BDL5      | 5.0 DCM       |
|             | 05/29/92     | 9.2     | BDL5    | 81        | BDL5   | 55     | BDL5      | 5.0 DCM *     |
|             | 06/30/92     | 14      | BDL5    | 71        | BDL5   | 52     | BDL5      | 7.4 DCM       |
|             | 07/21/92     | 10      | BDL5    | 65        | BDL5   | 42     | BDL5      | 26 DCM        |
|             | 08/26/92     | 6.1     | BDL5    | 62        | BDL5   | 34     | BDL5      | 15 DCM *      |
|             | 09/17/92     | 8.4     | BDL3    | 78        | BDL3   | 38     | BDL3      |               |
| MW-15D      | 12/19/89     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 01/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 02/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 03/21/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 04/23/90     | BDL1    | 1       | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 06/28/90     | BDL1    | 1       | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|             | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
| GALSON      | 01/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | 0.6    | BDL0.5    |               |
| GALSON      | 02/26/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 DCM *     |
| GALSON      | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 1,2-DCA   |
|             | 04/30/91     | BDL0.5  | 0.6     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|             | 05/30/91     | BDL0.5  | 0.5     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| (continued) | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |



# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO.                                  | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS                                                     |
|-------------------------------------------|--------------|---------|---------|-----------|--------|--------|-----------|-------------------------------------------------------------------|
| (continued)<br>MW-15D                     | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 DCM *<br>0.5 DCM<br>0.6 DCM<br><br>0.5 DCM                    |
|                                           | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 10/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
| MW-16D                                    | 01/02/90     | BDL10   | BDL10   | 360       | BDL10  | BDL10  | BDL10     | 78 DCM *<br>79 DCM<br><br>59 DCM<br>150 DCM *                     |
|                                           | 01/23/90     | BDL20   | BDL20   | 820       | BDL20  | BDL20  | BDL20     |                                                                   |
|                                           | 02/21/90     | BDL50   | BDL50   | 850       | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 03/21/90     | BDL50   | BDL50   | 680       | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 04/23/90     | BDL50   | BDL50   | 870       | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 05/22/90     | BDL50   | BDL50   | 900       | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 06/28/90     | 54      | BDL50   | 1300      | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 07/25/90     | 81      | BDL50   | 1000      | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 08/23/90     | 66      | BDL50   | 1200      | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 09/20/90     | BDL50   | BDL50   | 1100      | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 10/23/90     | BDL50   | BDL50   | 800       | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 11/14/90     | BDL50   | BDL50   | 1400      | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 12/12/90     | BDL50   | BDL50   | 1300      | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 03/20/91     | 510     | BDL50   | 1600      | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 06/19/91     | 76      | BDL50   | 710       | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 09/25/91     | 120     | BDL50   | 1500      | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 12/19/91     | 83      | BDL50   | 1400      | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 01/24/92     | 110     | BDL50   | 1300      | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 04/24/92     | 120     | BDL50   | 1100      | BDL50  | BDL50  | BDL50     |                                                                   |
|                                           | 08/24/92     | 120     | BDL50   | 1100      | BDL50  | BDL50  | BDL50     |                                                                   |
| MW-17D<br><br>UPSTATE<br>GALSON<br>GALSON | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      | 0.5 DCM, 0.5 Toluene, 0.7 Total Xylenes<br><br>0.8 DCM<br>0.5 DCM |
|                                           | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                   |
|                                           | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                   |
|                                           | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                   |
|                                           | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                   |
|                                           | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                   |
|                                           | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                   |
|                                           | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                   |
|                                           | 12/11/90     | BDL1    | BDL1    | 3         | BDL1   | 4      | BDL1      |                                                                   |
|                                           | 01/14/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                   |
|                                           | 01/30/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                   |
|                                           | 01/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 03/20/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 04/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 05/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 10/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
|                                           | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |
| (continued)                               | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                   |

# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.                                                                  | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|---------------------------------------------------------------------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| (continued)<br>MW-17D                                                     | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-18S<br><br><br><br><br><br><br><br><br><br>GALSON                      | 05/07/90     | BDL1    | BDL1    | 2         | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 05/22/90     | 2       | BDL1    | 40        | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 06/28/90     | BDL1    | BDL1    | 1         | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 09/19/90     | BDL1    | BDL1    | 4         | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 10/23/90     | BDL1    | BDL1    | 7         | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 11/13/90     | BDL1    | BDL1    | 16        | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 12/11/90     | BDL1    | BDL1    | 9         | BDL1   | 3      | BDL1      |               |
|                                                                           | 03/18/91     | 0.8     | BDL0.5  | 3.3       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 06/17/91     | BDL0.5  | BDL0.5  | 0.9       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 09/24/91     | BDL0.5  | BDL0.5  | 2.8       | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM       |
|                                                                           | 12/17/91     | BDL0.5  | BDL0.5  | 3         | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 01/23/92     | BDL0.5  | BDL0.5  | 1.7       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 02/20/92     | BDL0.5  | BDL0.5  | 3.2       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|                                                                           | 03/24/92     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 04/22/92     | BDL0.5  | BDL0.5  | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-19S<br><br><br><br><br><br><br><br><br><br>GALSON                      | 05/07/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 03/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM *     |
|                                                                           | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-19D<br><br><br><br><br><br><br><br><br><br>UPSTATE<br>GALSON<br>GALSON | 04/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | 7      | BDL1      |               |
|                                                                           | 01/14/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                           | 01/14/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | 1.4       |               |
|                                                                           | 03/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 DCM *     |
|                                                                           | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM       |
|                                                                           | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                           | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |

## GROUND WATER DATA – KEY PARAMETERS

01-Feb-93

# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO.              | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS          |
|-----------------------|--------------|---------|---------|-----------|--------|--------|-----------|------------------------|
| (continued)<br>MW-21D | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 12/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON                | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                       | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                       | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *              |
|                       | 12/17/91     | BDL0.5  | BDL0.5  | 1.9       | BDL0.5 | BDL0.5 | BDL0.5    | 1.9 DCM *              |
|                       | 01/23/92     | BDL0.5  | BDL0.5  | 2.3       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                       | 04/22/92     | BDL0.5  | BDL0.5  | 3.8       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                       | 08/26/92     | BDL0.5  | BDL0.5  | 7.2       | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM *              |
| MW-22S                | 05/10/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      | 1 Toluene              |
|                       | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON                | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM                |
|                       | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluene            |
|                       | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                       | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 DCM *              |
|                       | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                       | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                       | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| MW-22D                | 05/10/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON                | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM *, 0.7 Toluene |
|                       | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 Toluene            |
|                       | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                       | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM *              |
|                       | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                       | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                       | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| MW-23S                | 05/10/90     | BDL1    | BDL1    | 2         | BDL1   | BDL1   | BDL1      |                        |
|                       | 05/17/90     | BDL1    | BDL1    | 2         | BDL1   | BDL1   | BDL1      | 9 Toluene              |
|                       | 05/22/90     | BDL1    | BDL1    | 1         | BDL1   | BDL1   | BDL1      |                        |
|                       | 06/28/90     | BDL1    | BDL1    | 1         | BDL1   | BDL1   | BDL1      |                        |
|                       | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                       | 09/20/90     | BDL1    | BDL1    | 2         | BDL1   | BDL1   | BDL1      |                        |
|                       | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| (continued)           | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |



# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS          |
|-------------|--------------|---------|---------|-----------|--------|--------|-----------|------------------------|
| (continued) | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| UPSTATE     | 01/30/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON      | 01/30/90     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| UPSTATE     | 02/27/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON      | 02/27/90     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| GALSON      | 03/18/91     | BDL0.5  | BDL0.5  | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM                |
| MW-23S      | 04/29/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|             | 05/31/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|             | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|             | 07/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|             | 08/28/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.7 DCM*               |
|             | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|             | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|             | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|             | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM *              |
|             | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 DCM                |
|             | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.5 DCM                |
|             | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| MW-23D      | 05/07/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      | 1 Toluenc              |
|             | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 01/30/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON      | 01/30/90     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 Toluenc            |
| GALSON      | 02/27/90     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM *, 0.5 Toluenc |
| GALSON      | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM *, 1.0 Toluenc |
|             | 04/29/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluenc            |
|             | 05/31/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|             | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM, 0.7 Toluenc   |
|             | 07/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluenc            |
|             | 08/28/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.6 DCM *              |
|             | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM                |
|             | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM                |
|             | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 Toluenc            |
|             | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|             | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 DCM                |
|             | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|             | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |

# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE  | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS                                                                                                       |           |
|----------|--------------|----------|---------|-----------|--------|--------|-----------|---------------------------------------------------------------------------------------------------------------------|-----------|
| MW-24S   | 05/10/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      | 2 Toluene                                                                                                           |           |
|          | 05/22/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 06/28/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 07/25/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 08/23/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 09/19/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 10/23/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 11/13/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 12/11/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
| GALSON   | 01/30/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.3 DCM *, 0.5 Toluene                                                                                              |           |
| 02/26/91 | BDL0.5       | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
| GALSON   | 03/18/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     | 0.5 DCM * |
|          | 04/29/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 05/31/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 06/18/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     | 1.9 DCM * |
|          | 07/24/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 08/28/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 09/24/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     | 1.4 DCM * |
|          | 10/23/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 11/21/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
| 12/16/91 | BDL0.5       | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 |           |                                                                                                                     |           |
| 01/21/92 | BDL0.5       | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 |           |                                                                                                                     |           |
| 04/21/92 | BDL0.5       | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 |           |                                                                                                                     |           |
| 08/26/92 | BDL0.5       | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 |           |                                                                                                                     |           |
| MW-24D   | 05/22/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      | 1.2 DCM *, 0.6 Toluene<br>0.6 DCM *<br><br>* DCM, 0.5 Toluene<br>0.5 Toluene<br>0.5 DCM *<br>0.7 Toluene<br>0.9 DCM |           |
|          | 06/28/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 07/25/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 08/23/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 09/19/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 10/23/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 11/13/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | 12/11/90     | BDL1     | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                                                                                     |           |
|          | GALSON       | 01/30/91 | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     | BDL0.5    |
|          | GALSON       | 02/26/91 | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     | BDL0.5    |
|          | GALSON       | 03/18/91 | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     | BDL0.5    |
|          | 04/29/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 05/31/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 06/18/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 07/24/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 08/28/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 09/24/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 10/23/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 11/21/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
|          | 12/16/91     | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                     |           |
| 01/21/92 | BDL0.5       | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 |           |                                                                                                                     |           |
| 04/21/92 | BDL0.5       | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 |           |                                                                                                                     |           |
| 08/26/92 | BDL0.5       | BDL0.5   | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 |           |                                                                                                                     |           |



# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS                             |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|-------------------------------------------|
| MW-25S   | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                           |
|          | 06/28/90     | BDL1    | 2       | BDL1      | BDL1   | BDL1   | BDL1      |                                           |
|          | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                           |
|          | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                           |
|          | 09/19/90     | BDL1    | 1       | BDL1      | BDL1   | BDL1   | BDL1      |                                           |
|          | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                           |
|          | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                           |
|          | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                           |
| GALSON   | 01/30/91     | BDL0.5  | 2.2     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.7 Toluene                               |
| GALSON   | 02/26/91     | BDL0.5  | 2.3     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM *, 2.2 Toluene                    |
| GALSON   | 03/18/91     | BDL0.5  | 2.3     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM *, 1.9 Toluene                    |
|          | 04/29/91     | BDL0.5  | 1.8     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 3.6 Toluene                               |
|          | 05/31/91     | BDL0.5  | 1.1     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM *, 3.1 Toluene, 0.6 Total Xylenes |
|          | 06/18/91     | BDL0.5  | 0.7     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.4 Toluene                               |
|          | 07/24/91     | BDL0.5  | 0.9     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 3.3 Toluene                               |
|          | 08/28/91     | BDL0.5  | 2.1     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 3.1 DCM *, 0.7 Benzene                    |
|          | 09/24/91     | BDL0.5  | 2.4     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM, 1.3 Toluene                      |
|          | 10/23/91     | BDL0.5  | 1.8     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 Toluene                               |
|          | 11/21/91     | BDL0.5  | 2       | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.5 Toluene                               |
|          | 12/16/91     | BDL0.5  | 2.1     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.6 Toluene                               |
|          | 01/21/92     | BDL0.5  | 1.9     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.3 DCM, 1.5 Toluene                      |
|          | 04/21/92     | BDL0.5  | 1.5     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 Toluene                               |
|          | 08/26/92     | BDL0.5  | 1.6     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                           |
| MW-25D   | 05/22/90     | BDL1    | BDL1    | 6         | BDL1   | BDL1   | BDL1      |                                           |
|          | 06/28/90     | BDL1    | BDL1    | 5         | BDL1   | BDL1   | BDL1      |                                           |
|          | 07/25/90     | BDL1    | BDL1    | 4         | BDL1   | BDL1   | BDL1      |                                           |
|          | 08/23/90     | BDL1    | BDL1    | 7         | BDL1   | BDL1   | BDL1      |                                           |
|          | 09/19/90     | BDL1    | BDL1    | 9         | BDL1   | BDL1   | BDL1      |                                           |
|          | 10/23/90     | BDL1    | BDL1    | 5         | BDL1   | BDL1   | BDL1      |                                           |
|          | 11/13/90     | BDL1    | BDL1    | 9         | BDL1   | BDL1   | BDL1      |                                           |
|          | 12/11/90     | BDL1    | BDL1    | 7         | BDL1   | BDL1   | BDL1      |                                           |
| GALSON   | 01/30/91     | 1.5     | 0.8     | 7.5       | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 Toluene                               |
| GALSON   | 02/26/91     | 2.1     | 0.9     | 7.7       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *, 0.9 Toluene                    |
| GALSON   | 03/18/91     | 2.2     | 0.9     | 7.5       | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM *, 0.6 Toluene                    |
|          | 04/29/91     | 1       | 1       | 7.3       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluene                               |
|          | 05/31/91     | BDL0.5  | BDL0.5  | 6         | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 Toluene                               |
|          | 06/18/91     | BDL0.5  | BDL0.5  | 3.1       | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 Toluene                               |
|          | 07/24/91     | BDL0.5  | BDL0.5  | 4.8       | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 Toluene                               |
|          | 08/28/91     | BDL0.5  | BDL0.5  | 6.8       | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM *, 0.6 Toluene                    |
|          | 09/24/91     | BDL0.5  | BDL0.5  | 6.3       | BDL0.5 | BDL0.5 | BDL0.5    |                                           |
|          | 10/23/91     | BDL0.5  | 0.5     | 3.4       | 0.5    | BDL0.5 | BDL0.5    | 0.5 Toluene                               |
|          | 11/21/91     | BDL0.5  | BDL0.5  | 0.9       | BDL0.5 | BDL0.5 | BDL0.5    |                                           |
|          | 12/16/91     | BDL0.5  | BDL0.5  | 3         | BDL0.5 | BDL0.5 | BDL0.5    |                                           |
|          | 01/21/92     | BDL0.5  | 0.6     | 2.8       | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM                                   |
|          | 04/21/92     | BDL0.5  | BDL0.5  | 2.1       | BDL0.5 | BDL0.5 | BDL0.5    |                                           |
|          | 08/26/92     | BDL0.5  | BDL0.5  | 1.5       | BDL0.5 | BDL0.5 | BDL0.5    |                                           |

# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO.                                                 | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS          |
|----------------------------------------------------------|--------------|---------|---------|-----------|--------|--------|-----------|------------------------|
| MW-26S<br><br>UPSTATE GALSON<br>UPSTATE GALSON<br>GALSON | 05/22/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 11/14/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 12/12/90     | BDL1    | BDL1    | 2         | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 01/14/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 01/14/91     | 1.8     | 0.5     | 6.2       | 0.8    | 1      | 6.8       | 0.5 Toluene            |
|                                                          | 01/31/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 01/31/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM *, 0.6 Toluene |
|                                                          | 04/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 05/31/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 06/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM                |
|                                                          | 07/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 08/28/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *              |
|                                                          | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 Toluene            |
|                                                          | 10/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 Toluene            |
|                                                          | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 Toluene            |
|                                                          | 12/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 Toluene            |
|                                                          | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluene            |
|                                                          | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| MW-26D<br><br>UPSTATE GALSON<br>GALSON                   | 05/22/90     | BDL1    | BDL1    | 1         | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 11/14/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 12/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|                                                          | 01/30/91     | BDL0.5  | BDL0.5  | 0.8       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 02/26/91     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 03/18/91     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM *              |
|                                                          | 04/30/91     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 05/31/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 06/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM                |
|                                                          | 07/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 08/28/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | * DCM                  |
|                                                          | 09/25/91     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 10/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM                |
|                                                          | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 12/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 01/24/92     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 02/20/92     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 03/25/92     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 04/24/92     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|                                                          | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM *              |

# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS          |
|-------------|--------------|---------|---------|-----------|--------|--------|-----------|------------------------|
| MW-27S      | 06/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM *              |
|             | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluene            |
|             | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 Toluene            |
|             | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM *              |
|             | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|             | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluene            |
|             | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| MW-27D      | 06/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 12/11/90     |         |         |           |        |        |           |                        |
|             | 06/28/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 07/25/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 08/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 09/19/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|             | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      | 3 Toluene              |
|             | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM *, 2.8 Toluene |
|             | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.4 Toluene            |
|             | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.2 Toluene            |
|             | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 DCM *, 1.6 Toluene |
|             | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.4 Toluene            |
|             | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.7 Toluene            |
|             | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.5 DCM *              |
| MW-28S      | 09/20/90     | BDL1    | BDL1    | 16        | BDL1   | 13     | BDL1      |                        |
|             | 10/23/90     | BDL1    | BDL1    | 10        | BDL1   | 13     | BDL1      |                        |
|             | 11/13/90     | BDL1    | BDL1    | 7         | BDL1   | BDL1   | BDL1      |                        |
|             | 12/11/90     | BDL1    | BDL1    | 12        | BDL1   | 13     | BDL1      |                        |
|             | 01/30/91     | BDL1    | BDL1    | 20        | BDL1   | 18     | BDL1      |                        |
|             | 01/30/91     | 3.4     | 1.2     | 15        | BDL0.5 | 14     | BDL0.5    | 0.5 DCM                |
|             | 02/26/91     | 2.8     | 1.1     | 12        | BDL0.5 | 14     | BDL0.5    | 0.6 DCM *              |
|             | 03/18/91     | 3.3     | 1.2     | 12        | BDL0.5 | 15     | BDL0.5    | 0.6 DCM *              |
|             | 04/29/91     | 2.3     | 1.2     | 15        | BDL0.5 | 12     | BDL0.5    |                        |
|             | 05/30/91     | 2.3     | 1       | 14        | 0.6    | 20     | BDL0.5    |                        |
|             | 06/17/91     | BDL0.5  | 0.6     | 8.3       | BDL0.5 | 13     | BDL0.5    | 0.6 DCM                |
|             | 07/23/91     | 1.7     | 0.9     | 19        | BDL0.5 | 7.9    | BDL0.5    |                        |
|             | 08/27/91     | 2.8     | 1.5     | 37        | BDL0.5 | 6.1    | BDL0.5    | 1.9 DCM *              |
|             | 09/24/91     | BDL0.5  | 0.9     | 39        | BDL0.5 | 4.8    | BDL0.5    |                        |
|             | 10/23/91     | BDL0.5  | 1.2     | 23        | BDL0.5 | 4      | BDL0.5    | 0.7 DCM                |
|             | 11/21/91     | BDL0.5  | 1.3     | 17        | BDL0.5 | 3.9    | BDL0.5    |                        |
|             | 12/16/91     | 1.2     | 1.2     | 22        | BDL0.5 | 3.8    | BDL0.5    |                        |
| (continued) |              |         |         |           |        |        |           |                        |

# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO.              | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|-----------------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| (continued)<br>MW-28S | 01/21/92     | 0.8     | 1.4     | 17        | BDL0.5 | 3.7    | BDL0.5    | 1.3 DCM       |
|                       | 04/21/92     | BDL0.5  | 0.9     | 8.1       | BDL0.5 | 6.6    | BDL0.5    | 0.5 DCM       |
|                       | 08/26/92     | BDL0.5  | 0.9     | 12        | BDL0.5 | 4.7    | BDL0.5    | 0.9 DCM *     |
| MW-28I                | 09/20/90     | BDL1    | BDL1    | 4         | BDL1   | 1      | BDL1      |               |
|                       | 10/23/90     | BDL1    | BDL1    | 1         | BDL1   | BDL1   | BDL1      |               |
|                       | 11/13/90     | BDL1    | BDL1    | 15        | BDL1   | BDL1   | BDL1      |               |
|                       | 12/11/90     | BDL1    | BDL1    | 7         | BDL1   | 5      | BDL1      |               |
| UPSTATE               | 01/30/91     | BDL1    | BDL1    | 12        | BDL1   | BDL1   | BDL1      |               |
| GALSON                | 01/30/91     | 2.3     | BDL0.5  | 11        | BDL0.5 | BDL0.5 | BDL0.5    |               |
| GALSON                | 02/26/91     | 3.5     | BDL0.5  | 15        | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM *     |
| GALSON                | 03/18/91     | 5.1     | 0.5     | 18        | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM *     |
|                       | 04/29/91     | 2.4     | 0.5     | 15        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 05/30/91     | 3.9     | BDL0.5  | 21        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 06/17/91     | BDL0.5  | BDL0.5  | 23        | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM       |
|                       | 07/23/91     | 1.8     | BDL0.5  | 25        | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM       |
|                       | 08/27/91     | 2.3     | BDL0.5  | 27        | BDL0.5 | BDL0.5 | BDL0.5    | 1.9 DCM *     |
|                       | 09/24/91     | BDL0.5  | BDL0.5  | 26        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 10/23/91     | BDL0.5  | 0.6     | 18        | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM       |
|                       | 11/21/91     | BDL0.5  | BDL0.5  | 13        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 12/16/91     | BDL0.5  | 0.8     | 21        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 01/21/92     | 0.5     | 1       | 27        | BDL0.5 | BDL0.5 | BDL0.5    | 1.3 DCM       |
|                       | 02/20/92     | BDL0.5  | 0.9     | 34        | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 DCM       |
|                       | 03/24/92     | 0.9     | 0.6     | 40        | BDL0.5 | BDL0.5 | BDL0.5    | 1.9 DCM       |
|                       | 04/21/92     | 0.7     | 0.5     | 45        | BDL0.5 | BDL0.5 | BDL0.5    | 1.3 DCM       |
|                       | 08/26/92     | 1.1     | 0.9     | 34        | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 DCM *     |
| MW-28D                | 09/20/90     | BDL1    | BDL1    | 13        | BDL1   | 2      | BDL1      |               |
|                       | 10/23/90     | BDL1    | BDL1    | 2         | BDL1   | BDL1   | BDL1      |               |
|                       | 11/13/90     | BDL1    | BDL1    | 7         | BDL1   | BDL1   | BDL1      |               |
|                       | 12/11/90     | BDL1    | BDL1    | 7         | BDL1   | BDL1   | BDL1      |               |
| UPSTATE               | 01/30/91     | BDL1    | BDL1    | 8         | BDL1   | BDL1   | BDL1      |               |
| GALSON                | 01/30/91     | 1.3     | BDL0.5  | 8.0       | BDL0.5 | BDL0.5 | BDL0.5    |               |
| GALSON                | 02/26/91     | 2.3     | BDL0.5  | 8.9       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *     |
| GALSON                | 03/18/91     | 2.9     | BDL0.5  | 10        | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM *     |
|                       | 04/29/91     | 1.8     | BDL0.5  | 12        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 05/30/91     | 2.1     | BDL0.5  | 12        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 06/17/91     | BDL0.5  | BDL0.5  | 12        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 07/23/91     | 1.2     | BDL0.5  | 19        | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM       |
|                       | 08/27/91     | 1.5     | BDL0.5  | 26        | BDL0.5 | BDL0.5 | BDL0.5    | * DCM         |
|                       | 09/24/91     | BDL0.5  | BDL0.5  | 27        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 10/23/91     | BDL0.5  | BDL0.5  | 20        | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM       |
|                       | 11/21/91     | BDL0.5  | BDL0.5  | 28        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 12/16/91     | BDL0.5  | 0.6     | 22        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                       | 01/21/92     | BDL0.5  | 0.6     | 27        | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 DCM       |
|                       | 04/21/92     | BDL0.5  | 0.5     | 32        | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM       |
|                       | 08/26/92     | 0.7     | 0.9     | 45        | BDL0.5 | BDL0.5 | BDL0.5    | 1.8 DCM *     |



# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS          |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|------------------------|
| MW-29S   | 09/20/90     | BDL1    | BDL1    | 12        | BDL1   | 3      | BDL1      |                        |
|          | 10/23/90     | BDL1    | BDL1    | 4         | BDL1   | BDL1   | BDL1      |                        |
|          | 11/13/90     | BDL1    | BDL1    | 10        | BDL1   | BDL1   | BDL1      |                        |
|          | 12/11/90     | BDL1    | BDL1    | 9         | 3      | 3      | BDL1      |                        |
| UPSTATE  | 01/30/91     | BDL1    | BDL1    | 20        | BDL1   | 5      | BDL1      |                        |
| GALSON   | 01/30/91     | 2.3     | BDL0.5  | 13        | BDL0.5 | 1.9    | BDL0.5    |                        |
| GALSON   | 02/26/91     | 3.5     | BDL0.5  | 14        | BDL0.5 | 1.8    | BDL0.5    |                        |
| GALSON   | 03/18/91     | 3.9     | BDL0.5  | 15        | BDL0.5 | 2.3    | BDL0.5    | 0.7 DCM *              |
|          | 04/29/91     | 2.5     | BDL0.5  | 15        | BDL0.5 | 1.2    | BDL0.5    |                        |
|          | 05/30/91     | 3.9     | BDL0.5  | 20        | BDL0.5 | 2.5    | BDL0.5    |                        |
|          | 06/17/91     | BDL0.5  | BDL0.5  | 17        | BDL0.5 | 1.6    | BDL0.5    |                        |
|          | 07/23/91     | 0.7     | BDL0.5  | 7.4       | BDL0.5 | 1.2    | BDL0.5    |                        |
|          | 08/27/91     | BDL0.5  | BDL0.5  | 6.0       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 09/24/91     | BDL0.5  | BDL0.5  | 6.2       | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM                |
|          | 10/23/91     | BDL0.5  | BDL0.5  | 3.6       | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM                |
|          | 11/21/91     | BDL0.5  | BDL0.5  | 3         | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 12/16/91     | BDL0.5  | BDL0.5  | 6.8       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 01/21/92     | BDL0.5  | BDL0.5  | 8.7       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 02/20/92     | BDL0.5  | BDL0.5  | 11        | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 03/24/92     | 0.6     | 0.5     | 31        | BDL0.5 | BDL0.5 | BDL0.5    | 1.5 DCM                |
|          | 04/21/92     | 0.5     | 0.6     | 37        | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM                |
|          | 08/26/92     | 0.6     | BDL0.5  | 27        | BDL0.5 | 0.6    | BDL0.5    |                        |
| MW-29I   | 09/20/90     | BDL1    | BDL1    | 3         | BDL1   | 2      | BDL1      |                        |
|          | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|          | 11/13/90     | BDL1    | BDL1    | 6         | BDL1   | BDL1   | BDL1      |                        |
|          | 12/11/90     | BDL1    | BDL1    | 4         | BDL1   | BDL1   | BDL1      |                        |
| UPSTATE  | 01/30/91     | BDL1    | BDL1    | 6         | BDL1   | 2      | BDL1      |                        |
| GALSON   | 01/30/91     | 0.5     | BDL0.5  | 3.6       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| GALSON   | 02/26/91     | 1.8     | 0.6     | 8.8       | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM *              |
| GALSON   | 03/18/91     | 3.7     | 0.6     | 12        | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM *              |
|          | 04/29/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 05/30/91     | 1.1     | 0.6     | 6.4       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 06/17/91     | BDL0.5  | BDL0.5  | 2.1       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *              |
|          | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM                |
|          | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 12/16/91     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 01/21/92     | BDL0.5  | BDL0.5  | 0.9       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 04/21/92     | BDL0.5  | BDL0.5  | 1.1       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 08/26/92     | 0.7     | 0.8     | 12        | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM *, 0.7 Toluenc |

# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.                                            | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|-----------------------------------------------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| MW-29D<br><br>UPSTATE<br>GALSON<br>GALSON<br>GALSON | 09/20/90     | BDL1    | BDL1    | 4         | BDL1   | 2      | BDL1      |               |
|                                                     | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                     | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                     | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                     | 01/30/91     | BDL1    | BDL1    | 4         | BDL1   | 3      | BDL1      |               |
|                                                     | 01/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 02/26/91     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM *     |
|                                                     | 03/18/91     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM *     |
|                                                     | 04/29/91     | BDL0.5  | BDL0.5  | 1         | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 05/30/91     | BDL0.5  | BDL0.5  | 1.5       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 06/17/91     | BDL0.5  | BDL0.5  | 1         | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 08/27/91     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    | * DCM         |
|                                                     | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 10/23/91     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM       |
|                                                     | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 12/16/91     | BDL0.5  | BDL0.5  | 1.3       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 01/21/92     | BDL0.5  | BDL0.5  | 1.4       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|                                                     | 04/21/92     | BDL0.5  | 0.5     | 5         | BDL0.5 | 1.1    | BDL0.5    |               |
|                                                     | 08/26/92     | BDL0.5  | 0.5     | 8.2       | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-30S<br><br>UPSTATE<br>GALSON<br>GALSON<br>GALSON | 09/20/90     | BDL1    | BDL1    | 8         | BDL1   | 2      | BDL1      |               |
|                                                     | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                     | 11/13/90     | BDL1    | BDL1    | 4         | BDL1   | BDL1   | BDL1      |               |
|                                                     | 12/11/90     | BDL1    | BDL1    | 3         | BDL1   | BDL1   | BDL1      |               |
|                                                     | 01/30/91     | BDL1    | BDL1    | 7         | BDL1   | BDL1   | BDL1      |               |
|                                                     | 01/30/91     | 0.6     | BDL0.5  | 5.0       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 02/26/91     | 0.8     | BDL0.5  | 3.9       | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM *     |
|                                                     | 03/18/91     | 2.3     | BDL0.5  | 7.1       | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM *     |
|                                                     | 04/29/91     | 1.6     | BDL0.5  | 10        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 05/30/91     | 1.2     | BDL0.5  | 7         | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 06/17/91     | BDL0.5  | BDL0.5  | 4.8       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 07/23/91     | BDL0.5  | BDL0.5  | 8.2       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 08/27/91     | BDL0.5  | BDL0.5  | 1.9       | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM *     |
|                                                     | 09/24/91     | BDL0.5  | BDL0.5  | 1.4       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 10/23/91     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 12/16/91     | BDL0.5  | BDL0.5  | 0.8       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 01/21/92     | BDL0.5  | BDL0.5  | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|                                                     | 04/21/92     | BDL0.5  | BDL0.5  | 6.4       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 08/26/92     | BDL0.5  | 0.6     | 14        | BDL0.5 | BDL0.5 | BDL0.5    |               |



# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO.                                                       | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|----------------------------------------------------------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| MW-30I<br><br>UPSTATE<br>GALSON<br>GALSON<br>GALSON            | 09/20/90     | BDL1    | BDL1    | BDL1      | BDL1   | 1      | BDL1      |               |
|                                                                | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                | 01/30/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                                | 01/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM       |
|                                                                | 02/26/91     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *     |
|                                                                | 03/18/91     | BDL0.5  | BDL0.5  | 1.2       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 04/29/91     | BDL0.5  | 0.5     | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 05/30/91     | BDL0.5  | 0.5     | 1.3       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 06/17/91     | BDL0.5  | BDL0.5  | 0.8       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 07/23/91     | BDL0.5  | 1.1     | 5.6       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 08/27/91     | BDL0.5  | 0.9     | 3.3       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 09/24/91     | BDL0.5  | 1       | 3.6       | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM       |
|                                                                | 10/23/91     | BDL0.5  | 1.1     | 2.5       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 11/21/91     | BDL0.5  | BDL0.5  | 2.4       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 12/16/91     | BDL0.5  | 1.4     | 3.3       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 01/21/920    | BDL0.5  | 1.9     | 4.2       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 04/21/92     | BDL0.5  | 1.5     | 6.3       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 08/26/92     | BDL0.5  | 1.8     | 15        | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-30D<br><br>UPSTATE<br>GALSON<br>UPSTATE<br>GALSON<br>GALSON | 09/20/90     | BDL1    | BDL1    | 6         | BDL1   | 2      | BDL1      |               |
|                                                                | 10/23/90     | BDL1    | BDL1    | 3         | BDL1   | BDL1   | BDL1      |               |
|                                                                | 11/13/90     | BDL1    | BDL1    | 8         | BDL1   | BDL1   | BDL1      |               |
|                                                                | 12/11/90     | BDL1    | BDL1    | 9         | BDL1   | BDL1   | BDL1      |               |
|                                                                | 01/30/91     | BDL1    | BDL1    | 13        | BDL1   | BDL1   | BDL1      |               |
|                                                                | 01/30/91     | 1.5     | 1.2     | 8.4       | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM       |
|                                                                | 02/26/91     | BDL1    | BDL1    | 13        | BDL1   | BDL1   | BDL1      |               |
|                                                                | 02/26/91     | 2.4     | 1.2     | 10        | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM *     |
|                                                                | 03/18/91     | 2.9     | 1.3     | 12        | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|                                                                | 04/29/91     | 1.7     | 1.2     | 10        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 05/30/91     | BDL0.5  | 0.5     | 3.1       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 06/17/91     | BDL0.5  | BDL0.5  | 1.9       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 07/23/91     | 0.6     | 0.8     | 9.3       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 08/27/91     | BDL0.5  | 0.7     | 12        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 09/24/91     | BDL0.5  | BDL0.5  | 15        | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM       |
|                                                                | 10/23/91     | BDL0.5  | 0.6     | 8.4       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|                                                                | 11/21/91     | BDL0.5  | BDL0.5  | 11        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 12/16/91     | BDL0.5  | 0.8     | 10        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 01/21/92     | BDL0.5  | 0.6     | 6.5       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 02/20/92     | BDL0.5  | 0.6     | 9.2       | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM       |
|                                                                | 03/24/92     | BDL0.5  | BDL0.5  | 0.8       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                                | 04/21/92     | BDL0.5  | BDL0.5  | 1.8       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|                                                                | 08/26/92     | BDL0.5  | 0.8     | 12        | BDL0.5 | BDL0.5 | BDL0.5    |               |

# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.                                            | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS                                       |
|-----------------------------------------------------|--------------|---------|---------|-----------|--------|--------|-----------|-----------------------------------------------------|
| MW-31S<br><br>UPSTATE<br>GALSON<br>GALSON<br>GALSON | 09/20/90     | ---     | ---     | ---       | ---    | ---    | ---       |                                                     |
|                                                     | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                     |
|                                                     | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                     |
|                                                     | 12/11/90     | BDL1    | BDL1    | 4         | BDL1   | BDL1   | BDL1      |                                                     |
|                                                     | 01/30/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                     |
|                                                     | 01/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 Toluene                                         |
|                                                     | 02/26/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *, 0.5 Toluene                              |
|                                                     | 03/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 Toluene                                         |
|                                                     | 04/29/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluene                                         |
|                                                     | 05/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                     |
|                                                     | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                     |
|                                                     | 07/23/91     | BDL0.5  | BDL0.5  | 5.4       | BDL0.5 | BDL0.5 | BDL0.5    |                                                     |
|                                                     | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                     |
|                                                     | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM                                             |
|                                                     | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                     |
|                                                     | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                     |
|                                                     | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                     |
|                                                     | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 Toluene                                         |
|                                                     | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                     |
|                                                     | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                     |
| MW-31I<br><br>UPSTATE<br>GALSON<br>GALSON<br>GALSON | 09/20/90     | BDL1    | BDL1    | BDL1      | BDL1   | 1      | BDL1      |                                                     |
|                                                     | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                     |
|                                                     | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                     |
|                                                     | 12/11/90     | BDL1    | BDL1    | 4         | BDL1   | BDL1   | BDL1      |                                                     |
|                                                     | 01/30/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                     |
|                                                     | 01/30/91     | BDL0.5  | BDL0.5  | 1.0       | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM, 1.4 chloroform, 1.8 bromodichloromethane   |
|                                                     | 02/26/91     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM, 1.0 chloroform, 1.3 bromodichloromethane   |
|                                                     | 03/18/91     | BDL0.5  | BDL0.5  | 0.8       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM, 1.2 chloroform, 1.5 bromodichloromethane   |
|                                                     | 04/29/91     | BDL0.5  | BDL0.5  | 0.8       | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 chloroform                                      |
|                                                     | 05/30/91     | BDL0.5  | BDL0.5  | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 chloroform, 0.5 bromodichloromethane            |
|                                                     | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM, 0.6 chloroform, 0.6 bromodichloromethane   |
|                                                     | 07/23/91     | BDL0.5  | BDL0.5  | 5.6       | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 Chloroform, 1.3 Bromodichloromethane            |
|                                                     | 08/27/91     | BDL0.5  | BDL0.5  | 1.4       | BDL0.5 | BDL0.5 | BDL0.5    | 1.3 Chloroform                                      |
|                                                     | 09/24/91     | BDL0.5  | BDL0.5  | 0.9       | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 Chloroform                                      |
|                                                     | 10/23/91     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM, 1.3, chloroform, 1.8 bromodichloromethane  |
|                                                     | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 Chloroform, 1.6 Bromodichloromethane            |
|                                                     | 12/16/91     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    | 1.6 Chloroform, 1.8 Bromodichloromethane            |
|                                                     | 01/21/92     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    | 1.6 Chloroform, 2.0 Bromodichloromethane            |
|                                                     | 02/20/92     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    | 1.4 Chloroform, 1.2 Bromodichloromethane            |
|                                                     | 03/24/92     | BDL0.5  | BDL0.5  | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 Chloroform, 1.3 Bromodichloromethane            |
|                                                     | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 Chloroform, 1.1 Bromodichloromethane            |
|                                                     | 08/26/92     | BDL0.5  | BDL0.5  | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 Chloroform, 1.3 Bromodichloromethane, 1.4 DCM * |

# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.                                            | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|-----------------------------------------------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| MW-31D<br><br>UPSTATE<br>GALSON<br>GALSON<br>GALSON | 09/20/90     | BDL1    | BDL1    | 3         | BDL1   | 2      | BDL1      |               |
|                                                     | 10/23/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                     | 11/13/90     | BDL1    | BDL1    | 7         | BDL1   | BDL1   | BDL1      |               |
|                                                     | 12/11/90     | BDL1    | BDL1    | 4         | BDL1   | BDL1   | BDL1      |               |
|                                                     | 01/30/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                                     | 01/30/91     | BDL0.5  | BDL0.5  | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 02/26/91     | BDL0.5  | 0.5     | 1.4       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *     |
|                                                     | 03/20/91     | BDL0.5  | 0.5     | 0.9       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|                                                     | 05/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 07/23/91     | BDL0.5  | BDL0.5  | 1.9       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 08/27/91     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM       |
|                                                     | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM       |
|                                                     | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                                     | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-32D<br><br>UPSTATE<br>GALSON<br>GALSON<br>GALSON | 10/23/90     | BDL10   | BDL10   | 280       | BDL10  | BDL10  | BDL10     |               |
|                                                     | 11/14/90     | BDL10   | BDL10   | 340       | BDL10  | BDL10  | BDL10     |               |
|                                                     | 12/12/90     | BDL10   | BDL10   | 280       | BDL10  | BDL10  | BDL10     |               |
|                                                     | 01/31/91     | BDL10   | BDL10   | 410       | BDL10  | BDL10  | BDL10     |               |
|                                                     | 01/31/91     | 75      | BDL0.5  | 300       | BDL0.5 | BDL0.5 | BDL0.5    | 20 DCM        |
|                                                     | 02/26/91     | 88      | 5.7     | 300       | BDL0.5 | BDL0.5 | BDL0.5    | 20 DCM *      |
|                                                     | 03/20/91     | 87      | 5.0     | 320       | BDL0.5 | BDL0.5 | BDL0.5    | 22 DCM *      |
|                                                     | 04/30/91     | 45      | BDL5    | 220       | BDL5   | BDL5   | BDL5      | 11 DCM #      |
|                                                     | 05/31/91     | 19      | BDL5    | 300       | BDL5   | 6.7    | BDL5      | 39 DCM *      |
|                                                     | 06/19/91     | 17      | BDL5    | 140       | BDL5   | BDL5   | BDL5      |               |
|                                                     | 07/23/91     | 44      | BDL5    | 260       | BDL5   | BDL5   | BDL5      | 21 DCM        |
|                                                     | 08/28/91     | 36      | BDL5    | 300       | BDL5   | BDL5   | BDL5      | 13 DCM *      |
|                                                     | 09/24/91     | 5       | BDL5    | 200       | BDL5   | BDL5   | BDL5      | 10 DCM        |
|                                                     | 10/23/91     | 23      | BDL5    | 190       | BDL5   | BDL5   | BDL5      | 20 DCM        |
|                                                     | 11/21/91     | 21      | BDL5    | 230       | BDL5   | BDL5   | BDL5      | 5.0 DCM *     |
|                                                     | 12/17/91     | 13      | 6.1     | 170       | BDL5   | BDL5   | BDL5      | 13 DCM *      |
|                                                     | 01/23/92     | 25      | BDL5    | 210       | BDL5   | BDL5   | BDL5      |               |
|                                                     | 02/20/92     | 12      | BDL5    | 150       | BDL5   | BDL5   | BDL5      | 9.7 DCM       |
|                                                     | 03/24/92     | 13      | BDL5    | 110       | BDL5   | BDL5   | BDL5      | 14 DCM        |
|                                                     | 04/22/92     | 11      | BDL5    | 110       | BDL5   | BDL5   | BDL5      | 11 DCM        |

# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS          |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|------------------------|
| MW-33S   | 10/23/90     | BDL1    | BDL1    | 1         | BDL1   | BDL1   | BDL1      | 15 Toluenc             |
|          | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
|          | 12/12/90     | BDL1    | BDL1    | 5         | BDL1   | BDL1   | BDL1      |                        |
|          | 01/31/91     | 0.9     | BDL0.5  | 4.6       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 02/26/91     | 0.7     | BDL0.5  | 3.3       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *, 0.5 Toluenc |
|          | 03/20/91     | 0.9     | BDL0.5  | 3.8       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *              |
|          | 06/18/91     | BDL0.5  | BDL0.5  | 2.5       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 09/24/91     | BDL0.5  | BDL0.5  | 1.8       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 12/17/91     | BDL0.5  | BDL0.5  | 13        | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 DCM *, 0.6 Toluenc |
|          | 01/23/92     | BDL0.5  | BDL0.5  | 68        | BDL0.5 | BDL0.5 | BDL0.5    | 2.3 DCM                |
| GALSON   | 04/22/92     | 3.3     | 1.3     | 77        | BDL0.5 | BDL0.5 | 0.5       | 5.0 DCM                |
|          | 08/27/92     | 1.5     | 0.8     | 48        | BDL0.5 | 1.3    | BDL0.5    | 2.2 DCM *              |
| MW-34D   | 10/23/90     | BDL1    | BDL1    | 13        | BDL1   | 2      | BDL1      | 1 Toluenc              |
|          | 11/14/90     | BDL1    | BDL1    | 33        | BDL1   | 3      | BDL1      |                        |
|          | 12/12/90     | BDL1    | BDL1    | 54        | BDL1   | 4      | BDL1      |                        |
|          | 01/31/91     | BDL1    | BDL1    | 76        | BDL1   | BDL1   | BDL1      |                        |
|          | 01/31/91     | 9.6     | 0.8     | 45        | BDL0.5 | 3.1    | BDL0.5    | 1.9 DCM                |
|          | 02/27/91     | BDL5    | BDL5    | 88        | BDL5   | 12     | BDL5      |                        |
|          | 02/27/91     | 13      | 0.7     | 48        | BDL0.5 | 3.4    | BDL0.5    | 3.2 DCM *, 0.6 Toluenc |
|          | 03/20/91     | 14      | 0.8     | 50        | BDL0.5 | 4.2    | BDL0.5    | 2.2 DCM *, 0.5 Toluenc |
|          | 04/30/91     | 13      | 1       | 64        | BDL0.5 | 2.9    | BDL0.5    | 2.8 DCM #              |
|          | 05/31/91     | 5.1     | 1.2     | 130       | BDL0.5 | 3.5    | BDL0.5    | 7.9 DCM *              |
| UPSTATE  | 06/18/91     | BDL0.5  | BDL0.5  | 59        | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 07/23/91     | 10      | BDL0.5  | 130       | BDL0.5 | BDL0.5 | BDL0.5    | 12 DCM                 |
|          | 08/28/91     | BDL0.5  | 15      | 200       | BDL0.5 | BDL0.5 | BDL0.5    | 9.0 DCM *              |
|          | 09/24/91     | BDL0.5  | BDL0.5  | 210       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 10/23/91     | BDL0.5  | 6       | 120       | BDL0.5 | BDL0.5 | BDL0.5    | 18 DCM                 |
|          | 11/21/91     | 11      | BDL0.5  | 130       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 12/17/91     | 6       | BDL0.5  | 130       | BDL0.5 | BDL0.5 | BDL0.5    | 12 DCM *               |
|          | 01/23/92     | 8       | BDL0.5  | 180       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 04/22/92     | 8.4     | BDL5    | 140       | BDL5   | 6.9    | BDL5      | 9.3 DCM                |
| GALSON   | 10/23/90     | BDL1    | BDL1    | 22        | BDL1   | BDL1   | BDL1      |                        |
|          | 11/14/90     | BDL1    | BDL1    | 41        | BDL1   | BDL1   | BDL1      |                        |
|          | 12/12/90     | BDL1    | BDL1    | 54        | BDL1   | BDL1   | BDL1      |                        |
|          | 01/31/91     | 12      | 0.6     | 63        | BDL0.5 | BDL0.5 | BDL0.5    | 1.5 DCM                |
|          | 02/27/91     | BDL10   | BDL10   | 150       | BDL10  | BDL10  | BDL10     |                        |
|          | 02/27/91     | 22      | 0.8     | 74        | BDL0.5 | BDL0.5 | BDL0.5    | 1.8 DCM                |
|          | 03/20/91     | 21      | BDL0.5  | 85        | BDL0.5 | BDL0.5 | BDL0.5    | 2.3 DCM                |
|          | 04/30/91     | 13      | 0.9     | 69        | BDL0.5 | BDL0.5 | BDL0.5    | 1.5 DCM #              |
|          | 05/31/91     | 1.9     | BDL0.5  | 78        | BDL0.5 | BDL0.5 | BDL0.5    | 4.5 DCM *              |
|          | 06/18/91     | 1.1     | BDL0.5  | 30        | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| UPSTATE  | 07/23/91     | 7.9     | BDL0.5  | 54        | BDL0.5 | BDL0.5 | BDL0.5    | 1.7 DCM                |
|          | 08/28/91     | 6.0     | BDL0.5  | 72        | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 Toluenc, 1.6 DCM * |
|          | 09/24/91     | BDL0.5  | BDL0.5  | 61        | BDL0.5 | BDL0.5 | BDL0.5    | 1.6 DCM *              |
|          | 10/23/91     | 2.2     | 0.9     | 46        | BDL0.5 | BDL0.5 | BDL0.5    | 2.3 DCM                |
|          | 11/21/91     | 4.1     | BDL0.5  | 46        | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 12/17/91     | 1.8     | 0.7     | 42        | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 01/23/92     | 1.9     | 0.9     | 42        | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 04/22/92     | 1.5     | 0.7     | 27        | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM                |



# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS               |
|-------------|--------------|---------|---------|-----------|--------|--------|-----------|-----------------------------|
| MW-36S      | 12/12/90     | BDL100  | 600     | 1100      | 160    | 920    | 3300      | 900 DCM                     |
| GALSON ASP  | 12/12/90     | 260     | 910     | 1800      | 260    | 1100   | 5200      | 570 DCM, 630 Acetone        |
| UPSTATE     | 01/14/91     | BDL100  | 690     | 1800      | BDL100 | 1100   | 4200      | 690 DCM                     |
| GALSON      | 01/14/91     | 400     | 780     | 1300      | 220    | 730    | 7800      | 560 DCM *, 110 Tol, 150 XYL |
| UPSTATE     | 01/31/91     | BDL100  | 400     | 1000      | 130    | 670    | 2600      | 250 DCM                     |
| GALSON      | 01/31/91     | 250     | 440     | 780       | 140    | 490    | 3900      | 320 DCM, 60 Tol, 64 XYL     |
| UPSTATE     | 02/27/91     | BDL100  | 550     | 1100      | 150    | 670    | 3700      | 310 DCM                     |
| GALSON      | 02/27/91     | 220     | 500     | 670       | 120    | 420    | 3800      | 430 DCM, 77 Tol, 88 XYL     |
| GALSON      | 03/19/91     | 170     | 400     | 470       | 82     | 330    | 1600      | 270 DCM *, 57 Toluene       |
|             | 04/30/91     | 94      | 390     | 530       | 80     | 290    | 1700      | 150 DCM #                   |
|             | 05/31/91     | 80      | 500     | 600       | 90     | 300    | 1900      | 320 DCM *, 40 Toluene       |
|             | 06/19/91     | BDL50   | 190     | 200       | BDL50  | 180    | BDL50     | 170 DCM                     |
|             | 07/24/91     | BDL50   | 290     | 220       | BDL50  | 94     | 1000      | 52 DCM                      |
|             | 08/27/91     | BDL50   | 270     | 280       | BDL50  | BDL50  | 760       |                             |
|             | 09/25/91     | BDL50   | 310     | 310       | BDL50  | BDL50  | 800       | 110 DCM                     |
|             | 10/24/91     | BDL50   | 280     | 190       | BDL50  | 54     | 830       |                             |
|             | 11/21/91     | BDL50   | 290     | 210       | BDL50  | BDL50  | 930       |                             |
|             | 12/18/91     | BDL50   | 350     | 340       | BDL50  | BDL50  | 850       |                             |
|             | 01/24/92     | BDL50   | 200     | 130       | BDL50  | 65     | 490       | 51 DCM                      |
|             | 02/20/92     | BDL50   | 230     | 190       | BDL50  | BDL50  | 910       |                             |
|             | 03/25/92     | BDL50   | 270     | 210       | BDL50  | BDL50  | 960       |                             |
|             | 04/24/92     | BDL50   | 220     | 210       | BDL50  | BDL50  | 1100      | 70 DCM                      |
|             | 08/24/92     | BDL50   | 280     | 280       | BDL50  | BDL50  | 1000      | 120 DCM *                   |
| MW-36D      | 12/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                             |
| GALSON ASP  | 12/12/90     | BDL5    | BDL5    | BDL5      | BDL5   | BDL5   | BDL5      |                             |
|             | 01/14/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                             |
| GALSON      | 01/14/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | 0.7       | 0.5 Toluene                 |
|             | 01/31/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                             |
| GALSON      | 01/31/91     | BDL0.5  | 0.8     | BDL0.5    | BDL0.5 | BDL0.5 | 1.6       | 0.7 Toluene                 |
| GALSON      | 02/27/91     | BDL0.5  | 0.5     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM, 0.7 Toluene        |
| GALSON      | 03/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | 0.7    | BDL0.5    | 0.6 DCM *                   |
| GALSON      | 06/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                             |
| GALSON      | 09/25/91     | BDL0.5  | BDL0.5  | 6.5       | BDL0.5 | 3.3    | BDL0.5    |                             |
| GALSON      | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | 1.1    | BDL0.5    |                             |
| GALSON      | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | 0.6    | BDL0.5    |                             |
|             | 04/24/92     | BDL0.5  | BDL0.5  | 0.8       | BDL0.5 | 2.5    | BDL0.5    |                             |
|             | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | 1.7    | BDL0.5    |                             |
| MW-37S      | 12/11/90     | BDL20   | 190     | 170       | BDL20  | 44     | 460       |                             |
| UPSTATE     | 01/14/91     | BDL20   | 230     | 190       | BDL20  | BDL20  | 630       | 66 DCM                      |
| GALSON      | 01/14/91     | 37      | 190     | 98        | 6.0    | BDL5   | 800       | 62 DCM *                    |
| UPSTATE     | 01/31/91     | BDL20   | 170     | 150       | BDL20  | BDL20  | 450       | 33 DCM                      |
| GALSON      | 01/31/91     | 46      | 230     | 120       | 5.0    | BDL0.5 | 1000      | 68 DCM                      |
| GALSON      | 02/27/91     | 51      | 230     | 120       | 5.1    | BDL0.5 | 650       | 7.4 t-1,2-DCE, 73 DCM       |
| GALSON      | 03/19/91     | 49      | 190     | 110       | 5.5    | BDL0.5 | 570       | 55 DCM *                    |
|             | 04/30/91     | 24      | 200     | 110       | 5      | BDL0.5 | 580       | 44 DCM #                    |
|             | 05/31/91     | 33      | 260     | 120       | BDL5   | BDL5   | 620       | 70 DCM *                    |
| (continued) | 06/19/91     | 31      | 150     | 69        | BDL5   | BDL5   | 680       | 46 DCM                      |

# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO.              | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE   | TTCE  | c-1,2-DCE | MISCELLANEOUS              |
|-----------------------|--------------|---------|---------|-----------|-------|-------|-----------|----------------------------|
| (continued)<br>MW-37S | 07/24/91     | 33      | 170     | 110       | BDL5  | BDL5  | 510       | 290 DCM                    |
|                       | 08/27/91     | 170     | 120     | 92        | BDL5  | BDL5  | 250       | 11 DCM *                   |
|                       | 09/25/91     | 22      | 160     | 120       | BDL5  | BDL5  | 370       | 23 DCM                     |
|                       | 10/24/91     | BDL5    | 220     | 95        | 5     | BDL5  | 580       | 28 DCM *, 21 t-1,2 DCE     |
|                       | 11/21/91     | 15      | 230     | 80        | BDL5  | BDL5  | 510       | 30 DCM                     |
|                       | 12/18/91     | BDL50   | 230     | 96        | BDL50 | BDL50 | 770       |                            |
|                       | 01/24/92     | 22      | 230     | 96        | 5     | 6.8   | 650       | 31 DCM                     |
|                       | 04/24/92     | BDL50   | 130     | 59        | BDL50 | BDL50 | 540       | 54 DCM                     |
|                       | 08/24/92     | BDL25   | 120     | 58        | BDL25 | BDL25 | 460       | 55 DCM *                   |
| MW-37I                | 12/11/90     | BDL50   | BDL50   | 1300      | 140   | 290   | 1100      |                            |
| UPSTATE               | 01/14/91     | BDL50   | 320     | 2100      | BDL50 | 170   | 1700      | 140 DCM                    |
| GALSON                | 01/14/91     | 650     | 470     | 2300      | 300   | 1200  | 4400      | 270 DCM *, 83 Tol, 200 XYL |
| UPSTATE               | 01/31/91     | 110     | 240     | 1500      | 86    | 120   | 1400      | 140 DCM                    |
| GALSON                | 01/31/91     | 440     | 320     | 1900      | 130   | 87    | 2600      | 180 DCM                    |
| UPSTATE               | 02/27/91     | 120     | 250     | 1700      | 110   | 120   | 2000      | 130 DCM                    |
| GALSON                | 02/27/91     | 480     | 290     | 1600      | 120   | 74    | 2400      | 260 DCM                    |
| GALSON                | 03/19/91     | 570     | 330     | 2000      | 160   | 98    | 1900      | 210 DCM *                  |
|                       | 04/30/91     | 220     | 240     | 1500      | 93    | 68    | 1500      | 130 DCM                    |
|                       | 05/31/91     | 220     | 120     | 1700      | 60    | BDL50 | 1500      | 400 DCM *                  |
|                       | 06/19/91     | 100     | 110     | 730       | 60    | 50    | 1300      | 140 DCM                    |
|                       | 07/24/91     | 250     | 210     | 1500      | 89    | 61    | 1500      | 100 DCM                    |
|                       | 08/27/91     | 260     | 290     | 1900      | 90    | BDL50 | 1500      | 100 DCM *                  |
|                       | 09/25/91     | 120     | 240     | 1700      | 80    | BDL50 | 1400      | 64 DCM                     |
|                       | 10/24/91     | BDL50   | 200     | 1000      | 74    | 73    | 1300      | 50 DCM *                   |
|                       | 11/21/91     | 95      | 200     | 1000      | 57    | 50    | 1300      |                            |
|                       | 12/18/91     | 89      | 230     | 1400      | 80    | 63    | 1600      | 50 DCM *                   |
|                       | 01/24/92     | 99      | 230     | 1100      | 70    | 81    | 1500      | 93 DCM                     |
|                       | 02/20/92     | 64      | 170     | 910       | 51    | 51    | 1400      |                            |
|                       | 03/25/92     | 86      | 190     | 940       | 67    | 50    | 1500      | 50 DCM                     |
|                       | 04/24/92     | 57      | 130     | 680       | 64    | 50    | 1400      | 63 DCM                     |
|                       | 08/24/92     | BDL50   | 100     | 570       | BDL50 | BDL50 | 1000      | 120 DCM *                  |
| MW-37D                | 12/11/90     | BDL50   | BDL50   | 600       | BDL50 | 170   | 260       |                            |
| UPSTATE               | 01/14/91     | BDL50   | 210     | 650       | BDL50 | BDL50 | 260       | 130 DCM                    |
| GALSON                | 01/14/91     | 120     | 180     | 400       | 8.0   | BDL5  | 330.0     | 14 DCM *, 5.0 1,2-DCA      |
| UPSTATE               | 01/31/91     | BDL50   | 160     | 590       | BDL50 | BDL50 | 250       |                            |
| GALSON                | 01/31/91     | 170     | 170     | 470       | 8.5   | BDL5  | 390       | 14 DCM                     |
| UPSTATE               | 02/27/91     | BDL50   | 170     | 590       | BDL50 | BDL50 | 350       | 140 DCM                    |
| GALSON                | 02/27/91     | 220     | 180     | 540       | 7.0   | BDL5  | 420.0     | 23 DCM, 9.8 1,2-DCA        |
| GALSON                | 03/19/91     | 320     | 220     | 770       | 12    | BDL5  | 400       | 9.9 DCM *, 11 1,2-DCA      |
|                       | 04/30/91     | 180     | 170     | 870       | 11    | BDL5  | 370       | 10 DCM #, 6.6 1,2-DCA      |
|                       | 05/31/91     | 180     | 170     | 870       | 9     | BDL5  | 340       | 43 DCM *, 14 1,2-DCA       |
|                       | 06/19/91     | 170     | 96      | 600       | 12    | BDL5  | BDL5      | 15 DCM, 11 1,2-DCA         |
|                       | 07/24/91     | 320     | 130     | 700       | 14    | BDL5  | 410       | 10 DCM, 10 1,2-DCE         |
|                       | 08/27/91     | 170     | 290     | 1400      | BDL5  | BDL5  | 450       |                            |
|                       | 09/25/91     | 150     | 160     | 1300      | BDL50 | BDL50 | 400       |                            |
|                       | 10/24/91     | 130     | 170     | 1000      | BDL50 | BDL50 | 430       |                            |
|                       | 11/21/91     | 140     | 140     | 1000      | BDL50 | BDL50 | 430       |                            |
| (continued)           | 12/18/91     | 120     | 190     | 1400      | BDL50 | BDL50 | 480       | 50 DCM *                   |



# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO.    | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS                                         |
|-------------|--------------|---------|---------|-----------|--------|--------|-----------|-------------------------------------------------------|
| (continued) | 01/24/92     | 120     | 180     | 970       | BDL50  | BDL50  | 420       | 81 DCM                                                |
| MW-37D      | 04/24/92     | 120     | 150     | 900       | BDL50  | BDL50  | 570       | 53 DCM                                                |
|             | 08/24/92     | 160     | 170     | 930       | 34     | BDL25  | 580       | 80 DCM *                                              |
| MW-38S      |              |         |         |           |        |        |           |                                                       |
| UPSTATE     | 12/12/90     | BDL50   | BDL50   | 1400      | BDL50  | 1300   | BDL50     |                                                       |
| GALSON ASP  | 12/12/90     | 150     | 110     | 1600      | 19     | 1500   | NA        | 31 1,2-DCE (total), 130 DCM *, 2 1,2-DCA, 3 1,1,2-TCE |
| UPSTATE     | 01/14/91     | BDL50   | 130     | 1500      | BDL50  | 1600   | BDL50     |                                                       |
| GALSON      | 01/14/91     | 400     | 190     | 1600      | BDL50  | 1300   | 130       |                                                       |
| UPSTATE     | 01/31/91     | BDL50   | 81      | 1300      | BDL50  | 1500   | BDL50     |                                                       |
| GALSON      | 01/31/91     | 310     | 97      | 1300      | BDL50  | 1200   | 66        | 83 DCM                                                |
| UPSTATE     | 02/27/91     | BDL50   | 200     | 1400      | BDL50  | 1500   | BDL50     |                                                       |
| GALSON      | 02/27/91     | 400     | 220     | 1300      | BDL50  | 1400   | 72        | 170 DCM                                               |
| GALSON      | 03/19/91     | 400     | 220     | 1300      | BDL50  | 1400   | 55        | 56 DCM *                                              |
|             | 04/30/91     | 190     | 270     | 1200      | 76     | 950    | 64        | 90 DCM #                                              |
|             | 05/31/91     | 60      | 200     | 1100      | BDL50  | 910    | 70        | 310 DCM *                                             |
|             | 06/19/91     | 67      | 74      | 710       | BDL50  | 1100   | 68        | 110 DCM                                               |
|             | 07/24/91     | 220     | BDL50   | 1400      | BDL50  | 1500   | BDL50     | 110 DCM                                               |
|             | 08/27/91     | 220     | BDL50   | 1500      | 190    | 830    | BDL50     | 60 DCM *                                              |
|             | 09/25/91     | 80      | BDL50   | 1300      | 220    | 560    | BDL50     |                                                       |
|             | 11/21/91     | 78      | BDL50   | BDL50     | 120    | 1100   | BDL50     |                                                       |
|             | 12/18/91     | 72      | 110     | 1100      | 98     | 1100   | 75        |                                                       |
|             | 01/24/92     | 79      | 300     | 920       | 55     | 1000   | 57        |                                                       |
|             | 02/20/92     | 56      | 300     | 850       | 70     | 890    | 50        |                                                       |
|             | 03/25/92     | 66      | 270     | 870       | 110    | 880    | 53        |                                                       |
|             | 04/24/92     | 55      | 230     | 660       | 140    | 700    | 58        | 50 DCM                                                |
|             | 08/26/92     | 50      | 220     | 620       | 70     | 740    | 53        | 50 DCM *                                              |
| MW-38D      |              |         |         |           |        |        |           |                                                       |
| UPSTATE     | 12/12/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                       |
| GALSON ASP  | 12/12/90     | BDL5    | BDL5    | BDL5      | BDL5   | BDL5   | BDL5      |                                                       |
| UPSTATE     | 01/14/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                       |
| GALSON      | 01/14/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                       |
| UPSTATE     | 01/31/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                                                       |
| GALSON      | 01/31/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                       |
| GALSON      | 02/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM                                               |
| GALSON      | 03/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                       |
|             | 06/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM                                               |
|             | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                       |
|             | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                       |
|             | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                       |
|             | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                       |
|             | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                       |

# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS          |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|------------------------|
| MW-39S   | 12/11/90     | BDL1    | BDL1    | 5         | BDL1   | BDL1   | BDL1      | 1.0 DCM *, 0.6 Toluene |
| UPSTATE  | 01/14/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON   | 01/14/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| UPSTATE  | 01/31/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON   | 01/31/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| GALSON   | 02/26/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| GALSON   | 03/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 06/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 09/25/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| MW-39I   | 12/11/90     | BDL1    | BDL1    | 6         | BDL1   | BDL1   | BDL1      | 1.1 DCM *              |
| UPSTATE  | 01/14/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON   | 01/14/91     | 0.6     | 1.5     | 1.9       | 0.5    | BDL0.5 | 0.5       |                        |
| UPSTATE  | 01/31/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON   | 01/31/91     | BDL0.5  | 1.2     | 1.3       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| GALSON   | 02/26/91     | BDL0.5  | 1.1     | 1.2       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| GALSON   | 03/19/91     | BDL0.5  | 1.1     | 1.3       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 06/19/91     | BDL0.5  | 0.6     | 1.4       | BDL0.5 | BDL0.5 | 0.8       |                        |
|          | 09/25/91     | 2.3     | 2.4     | BDL0.5    | BDL0.5 | 7      | BDL0.5    |                        |
|          | 12/18/91     | BDL0.5  | 1.2     | 1.1       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 01/24/92     | BDL0.5  | 0.6     | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 04/24/92     | BDL0.5  | 0.6     | 1.2       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 08/24/92     | BDL0.5  | 1.6     | 2.6       | BDL0.5 | BDL0.5 | 1.3       |                        |
| MW-39D   | 12/11/90     | BDL1    | BDL1    | BDL1      | BDL1   | 2      | BDL1      | 1.0 DCM *              |
| UPSTATE  | 01/14/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON   | 01/14/91     | 0.8     | 0.7     | 2.3       | 0.5    | 3.6    | 0.5       |                        |
| UPSTATE  | 01/31/91     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |                        |
| GALSON   | 01/31/91     | BDL0.5  | 0.7     | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| GALSON   | 02/26/91     | BDL0.5  | 0.5     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| GALSON   | 03/19/91     | BDL0.5  | 0.6     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 06/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 09/25/91     | BDL0.5  | 0.6     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 12/18/91     | BDL0.5  | 0.5     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
| MW-40S   | 04/05/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluene            |
|          | 12/18/91     | BDL0.5  | BDL0.5  | 0.7       | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |

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## GROUND WATER DATA – KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS                        |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|--------------------------------------|
| MW-41S   | 04/05/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.9 Ethylbenzene, 0.5 Toluene        |
|          | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.4 Ethylbenzene, 1.1 Toluene        |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.1 Ethylbenzene, 1.9 Toluene        |
| MW-42S   | 05/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 13 chloroform                        |
|          | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.9 chloroform                       |
|          | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.7 Chloroform, 0.7 Toluene          |
|          | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.4 Chloroform, 0.8 DCM *            |
|          | 09/24/91     | BDL0.5  | 0.7     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 Chloroform, 2.2 Toluene          |
|          | 10/23/91     | BDL0.5  | 0.7     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM, 0.9 chloroform, 1.3 Toluene |
|          | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 Toluene                          |
|          | 12/16/91     | BDL0.5  | 0.9     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 Chloroform, 1.6 Toluene          |
|          | 01/21/92     | BDL0.5  | 0.6     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 Toluene                          |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM, 0.5 Toluene                 |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 DCM 0.7 Toluene                  |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 Toluene                          |
|          | 05/28/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 Toluene                          |
|          | 06/30/92     | BDL0.5  | 0.5     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 07/21/92     | BDL0.5  | 0.7     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.9 Chloroform, 0.7 DCM, 0.6 Toluene |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.3 Chloroform                       |
| MW-43S   | 09/17/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM                              |
|          | 05/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.5 Toluene                          |
|          | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *                            |
|          | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM                              |
|          | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
| MW-43D   | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.5 Chloromethane                    |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 05/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.1 Toluene                          |
|          | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 Toluene                          |
|          | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM *                            |
| MW-43D   | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 Toluene                          |
|          | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | .8 DCM *, 0.6 Toluene                |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 05/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |
|          | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                      |

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## GROUND WATER DATA - KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MW-44S   | 05/30/91     | 0.5     | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM *                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|          | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MW-45S   | 05/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 120 Benz, 63 TOL, 32 Ethbenz, 320 XLY, 0.9 Chlbenz<br>150 Benz, 580 TOL, 220 Ethylbenz, 110 XYL, 8.0 DCM *<br>36 TOL, 44 Ethylbenz, 140 XYLs<br>2.6 1,2-DCA, 67 Benz., 32 TOL, 64 Ethylbenzene, 150 Xyl.<br>1.7 1,2-DCA, 19 Benz., 32 Ethylbenzene, 21 Total Xylenes<br>0.5 1,2-DCA, 4.6 Benzene, 9.4 Ethylbenzene, 3.3 Total Xyl.<br>5.4 Benzene, 5.8 Ethylbenzene, 0.8 Tot Xyl.<br>0.6 DCM, 2.1 Benzene<br>0.6 DCM 0.7 Benzene<br>7.1 Benzene, 17 Ethylbenzene, 75 Total Xylenes |
|          | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 01/21/92     | BDL0.5  | 0.6     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MW-45D   | 05/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 chloroform, 1.3 1,2-DCA, 20 XYL<br>1.0 1,2-DCA, 26 Benz, 0.5 Toluene, 15 XYL<br>1.1 DCM<br>0.5 1,2-DCA, 0.6 Chloroform<br>0.6 DCM, 0.6 Chloroform                                                                                                                                                                                                                                                                                                                              |
|          | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MW-46S   | 05/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 Toluene<br>2.7 DCM<br>0.8 Toluene<br>0.8 Toluene<br>0.5 Toluene                                                                                                                                                                                                                                                                                                                                                                                                                |
|          | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS    |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|------------------|
| MW-46D   | 05/30/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
|          | 06/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.4 Toluene      |
|          | 07/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 4.8 Toluene      |
|          | 08/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.7 DCM *        |
|          | 09/24/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
|          | 10/23/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
|          | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
|          | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 Toluene      |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 DCM          |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
|          | 05/28/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
|          | 06/30/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
|          | 07/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
|          | 09/17/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                  |
| MW-47S   | 07/11/91     | 180     | 190     | 740       | 250    | 740    | 230       | 13 total xylenes |
|          | 07/25/91     | BDL50   | 340     | 1800      | 160    | 910    | 220       | 2400 DCM         |
|          | 08/30/91     | 730     | 320     | 1700      | 150    | 690    | 240       | 2400 DCM *       |
|          | 09/26/91     | 760     | 300     | 2100      | 240    | 480    | 300       | 1900 DCM *       |
|          | 10/24/91     | 270     | 170     | 1200      | 300    | 360    | 470       | 280 DCM *        |
|          | 11/21/91     | 110     | 99      | 690       | 200    | 220    | 330       |                  |
|          | 12/20/91     | BDL50   | BDL50   | 160       | 50     | 120    | 78        |                  |
|          | 01/24/92     | 170     | 120     | 960       | 320    | 200    | 350       | 43 DCM *         |
|          | 02/20/92     | 68      | 56      | 420       | 140    | 120    | 190       |                  |
|          | 04/24/92     | 13      | 23      | 79        | 25     | 73     | 45        | 10 DCM           |
|          | 08/27/92     | 34      | 34      | 130       | 17     | 79     | 48        | 15 DCM *         |



# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| MW-48S   | 07/12/91     | 140     | 240     | 310       | 80     | 370    | 4100      | 120 1,2-DCA   |
|          | 07/25/91     | BDL50   | 760     | 720       | 160    | 370    | 10000     | 300 DCM       |
|          | 08/30/91     | 440     | 1200    | 830       | 210    | 540    | 13000     | 460 DCM *     |
|          | 09/26/91     | 420     | 1200    | 1200      | 260    | 720    | 16000     | 500 DCM *     |
|          | 10/24/91     | 380     | 960     | 1100      | 260    | 680    | 15000     | 340 DCM *     |
|          | 11/21/91     | 132     | 990     | 630       | 240    | 500    | 13000     | 520 DCM *     |
|          | 12/19/91     | 280     | 1000    | 830       | 180    | 280    | 13000     | 280 DCM *     |
|          | 01/24/92     | 280     | 530     | 840       | 100    | 360    | 6400      |               |
|          | 02/20/92     | 230     | 430     | 720       | 110    | 290    | 7200      |               |
|          | 04/24/92     | 270     | 500     | 690       | 120    | 220    | 11000     | 280 DCM       |
|          | 08/27/92     | 350     | 930     | 310       | 200    | 250    | 32000     | 200 DCM *     |
| MW-49S   | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.1 Toluene   |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM       |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM       |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-49I   | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | 2.3       | 1.4 Toluene   |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM       |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.4 DCM *     |
| MW-49D   | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 Toluene   |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluene   |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-50S   | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 Toluene   |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
| MW-50I   | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 Toluene   |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM       |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.4 DCM *     |

# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS                  |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|--------------------------------|
| MW-50D   | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.7 Toluene                    |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 03/25/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.3 DCM                        |
| MW-51I   | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 4.8 DCM *, Toluene 0.6         |
|          | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 DCM                        |
| MW-51D   | 11/21/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.9 DCM *, 0.6 Toluene         |
|          | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 DCM                        |
| MW-52S   | 12/17/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM                        |
| MW-52I   | 12/17/91     | BDL0.5  | BDL0.5  | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    | 3.1 Toluene                    |
|          | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 02/20/92     | BDL0.5  | BDL0.5  | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM                        |
| MW-52D   | 12/17/91     | BDL0.5  | 0.7     | 0.6       | BDL0.5 | BDL0.5 | BDL0.5    | 2.0 Toluene, 0.7 Total Xylenes |
|          | 01/23/92     | BDL0.5  | 0.5     | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    | 2.0 Toluene, 0.6 Total Xylenes |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 Toluene                    |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 Toluene 0.5 Total Xylenes  |
|          | 04/22/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluene, 0.5 DCM           |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.6 DCM                        |

# MILLER CONTAINER

## GROUND WATER DATA – KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS                                                                                                  |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|----------------------------------------------------------------------------------------------------------------|
| MW-53S   | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.7 DCM                                                                                                        |
|          | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 03/25/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
| MW-53I   | 12/18/91     | BDL0.5  | BDL0.5  | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    | 0.9 Toluene<br><br>0.7 DCM                                                                                     |
|          | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 03/25/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
| MW-53D   | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.2 Toluene<br>2.5 Toluene<br>1.7 Toluene<br>1.1 Toluene<br>0.9 DCM                                            |
|          | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 03/25/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
| MW-54S   | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.2 Toluene<br>1.5 Toluene<br><br>0.7 DCM                                                                      |
|          | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 03/25/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | 0.5    | BDL0.5    |                                                                                                                |
|          | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
| MW-54I   | 11/21/91     | BDL0.5  | 9.5     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 2.0 Toluene<br>2.9 Toluene<br>1.5 Toluene<br><br>1.1 Toluene<br>1.0 Toluene, 0.6 DCM<br>0.9 DCM *, 0.7 Toluene |
|          | 12/18/91     | BDL0.5  | 7.6     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 01/24/92     | BDL0.5  | 8.2     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 02/20/92     | BDL0.5  | 7.0     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 03/25/92     | BDL0.5  | 6.6     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 04/24/92     | BDL0.5  | 6.1     | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 08/24/92     | 0.7     | 10      | BDL0.5    | BDL0.5 | BDL0.5 | 1.6       |                                                                                                                |
| MW-54D   | 12/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.0 Toluene<br>0.8 Toluene<br>0.5 DCM *<br><br>1.0 Chloromethane                                               |
|          | 01/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 03/25/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 04/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |
|          | 08/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                                                                                                                |

# MILLER CONTAINER

## GROUND WATER DATA - KEY PARAMETERS

| WELL NO. | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS          |
|----------|--------------|---------|---------|-----------|--------|--------|-----------|------------------------|
| MW-55D   | 12/18/91     | 9.1     | 2.2     | 82        | BDL0.5 | 2.7    | BDL0.5    | 0.5 DCM *, 1.9 Toluene |
|          | 01/23/92     | 7.5     | 2.1     | 70        | BDL0.5 | 1      | BDL0.5    | 4.1 DCM                |
|          | 02/20/92     | 7.8     | 1.4     | 70        | BDL0.5 | 2.3    | BDL0.5    | 3.6 DCM                |
|          | 03/24/92     | 5.3     | 0.7     | 42        | BDL0.5 | 2.1    | BDL0.5    | 2.2 DCM                |
|          | 04/22/92     | 6.9     | 1       | 55        | BDL0.5 | 4.5    | BDL0.5    | 2.6 DCM                |
|          | 08/26/92     | 5.4     | 0.6     | 39        | BDL0.5 | 9.9    | BDL0.5    | 1.0 DCM *              |
| MW-56D   | 12/16/91     | 4.6     | 1.2     | 21        | BDL0.5 | 4.3    | 3.2       | 1.7 DCM *              |
|          | 01/23/92     | 2.9     | 1.9     | 23        | BDL0.5 | 3.4    | 2.4       | 0.9 DCM, 3.2 Toluene   |
|          | 02/20/92     | 2.9     | 1.3     | 30        | BDL0.5 | 4.6    | 3         | 0.5 DCM, 3.9 Toluene   |
|          | 03/24/92     | 8       | 1.7     | 80        | BDL0.5 | 5.7    | 3.1       | 0.8 DCM 1.0 Toluene    |
|          | 04/22/92     | 17      | BDL5    | 190       | BDL5   | 13     | BDL5      | 5.4 DCM                |
|          | 08/26/92     | 6.1     | 1.9     | 43        | BDL1   | 11     | 3.8       | 3.2 DCM *, 1.1 Toluene |
| MW-57S   | 12/16/91     | BDL0.5  | BDL0.5  | 2.5       | BDL0.5 | 0.8    | BDL0.5    | 0.9 DCM *              |
|          | 01/21/92     | BDL0.5  | BDL0.5  | 2.4       | BDL0.5 | 1.0    | BDL0.5    | 0.9 Toluene            |
|          | 02/20/92     | BDL0.5  | BDL0.5  | 2.2       | BDL0.5 | 1.0    | BDL0.5    | 0.6 Toluene            |
|          | 03/24/92     | BDL0.5  | BDL0.5  | 1.9       | BDL0.5 | 1.2    | BDL0.5    | 0.9 Toluene            |
|          | 04/21/92     | BDL0.5  | BDL0.5  | 1.5       | BDL0.5 | 1      | BDL0.5    | 0.9 Toluene            |
|          | 05/28/92     | BDL0.5  | BDL0.5  | 1.5       | BDL0.5 | 1      | BDL0.5    | 0.8 Toluene            |
|          | 06/30/92     | BDL0.5  | BDL0.5  | 1.6       | BDL0.5 | 1      | BDL0.5    |                        |
|          | 07/21/92     | BDL0.5  | BDL0.5  | 1.4       | BDL0.5 | 1      | BDL0.5    |                        |
|          | 08/26/92     | BDL0.5  | BDL0.5  | 1.5       | BDL0.5 | 1      | BDL0.5    | 0.5 Toluene            |
|          | 09/17/92     | BDL0.5  | BDL0.5  | 1.5       | BDL0.5 | 1      | BDL0.5    | 0.9 DCM                |
| MW-57D   | 12/16/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM *              |
|          | 01/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 1.4 Toluene            |
|          | 02/20/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 Toluene            |
|          | 03/24/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluene            |
|          | 04/21/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |                        |
|          | 08/26/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 Toluene            |
| MW-58S   | 12/19/91     | 380     | 370     | 2600      | 270    | 810    | 380       | 210 DCM *, 66 Toluene  |
|          | 01/24/92     | BDL50   | 930     | 4900      | 850    | 640    | 1200      | 980 DCM, 82 Toluene    |
|          | 02/20/92     | BDL50   | 570     | 4000      | 2000   | 280    | 2500      | 880 DCM, 81 Toluene    |
|          | 08/27/92     | 290     | 1300    | 11000     | 340    | 630    | 27000     | 2800 DCM *             |
| MW-59S   | 12/19/91     | BDL50   | 64      | 230       | BDL50  | 53     | 920       | 80 Total Xylenes       |
|          | 01/24/92     | 210     | 490     | 320       | 120    | BDL50  | 10000     | 140 DCM                |
|          | 02/20/92     | 530     | 1300    | BDL100    | BDL100 | BDL100 | 29000     | 340 DCM                |
|          | 04/24/92     | 1100    | 1800    | 2000      | BDL250 | BDL250 | 34000     | 650 DCM                |
|          | 08/27/92     | 650     | 2100    | 3100      | BDL250 | BDL250 | 40000     | 460 DCM *              |



MILLER CONTAINER

GROUND WATER DATA – KEY PARAMETERS

| WELL NO.                              | DATE SAMPLED | 1,1-DCE | 1,1-DCA | 1,1,1-TCA | TCE    | TTCE   | c-1,2-DCE | MISCELLANEOUS |
|---------------------------------------|--------------|---------|---------|-----------|--------|--------|-----------|---------------|
| T-1<br><br>GALSON<br>GALSON<br>GALSON | 11/13/90     | BDL5    | BDL5    | 99        | BDL5   | BDL5   | BDL5      |               |
|                                       | 12/12/90     | BDL1    | 26      | 100       | BDL1   | 61     | 100       |               |
|                                       | 01/31/91     | 22      | 1.3     | 130       | BDL0.5 | BDL0.5 | BDL0.5    | 3.7 DCM       |
|                                       | 02/27/91     | 22      | 0.8     | 94        | BDL0.5 | BDL0.5 | BDL0.5    | 3.3 DCM       |
|                                       | 03/20/91     | 35      | 1.6     | 110       | BDL0.5 | BDL0.5 | BDL0.5    | 5.7 DCM       |
|                                       | 06/18/91     | 6.4     | 0.5     | 55        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                       | 09/26/91     | 6.6     | 1.7     | 120       | BDL0.5 | BDL0.5 | BDL0.5    | 3.2 DCM •     |
|                                       | 12/19/91     | 4.8     | BDL0.5  | 73        | BDL0.5 | BDL0.5 | BDL0.5    | 2.8 DCM •     |
|                                       | 01/23/92     | 8       | 1.6     | 110       | BDL0.5 | BDL0.5 | BDL0.5    | 1.3 DCM •     |
|                                       | 04/24/92     | 12      | 1.9     | 110       | BDL0.5 | 1.7    | BDL0.5    | 1.1 DCM       |
| T-2<br><br>GALSON<br>GALSON<br>GALSON | 11/13/90     | BDL1    | BDL1    | BDL1      | BDL1   | BDL1   | BDL1      |               |
|                                       | 12/12/90     | BDL1    | BDL1    | 5         | BDL1   | 3      | 4         |               |
|                                       | 01/31/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                       | 02/27/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                       | 03/20/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                       | 06/18/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                       | 09/26/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                       | 12/19/91     | 5.5     | 1.3     | 100       | BDL0.5 | BDL0.5 | BDL0.5    | 1.5 DCM •     |
|                                       | 01/23/92     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                       | 04/24/92     | BDL0.5  | BDL0.5  | 0.5       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |
| T-3<br><br>GALSON                     | 11/13/90     | BDL1    | BDL1    | 10        | BDL10  | BDL10  | BDL10     |               |
|                                       | 12/12/90     | BDL1    | BDL1    | 17        | BDL1   | 8      | 11        |               |
|                                       | 03/20/91     | 2.4     | BDL0.5  | 8.5       | BDL0.5 | BDL0.5 | BDL0.5    | 0.8 DCM       |
|                                       | 06/18/91     | BDL0.5  | BDL0.5  | 5.3       | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                       | 09/26/91     | 2.8     | BDL0.5  | 64        | BDL0.5 | BDL0.5 | BDL0.5    | 1.6 DCM •     |
|                                       | 12/19/91     | BDL0.5  | BDL0.5  | BDL0.5    | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                       | 01/23/92     | 0.8     | BDL0.5  | 21        | BDL0.5 | BDL0.5 | BDL0.5    |               |
|                                       | 04/24/92     | BDL0.5  | BDL0.5  | 6.6       | BDL0.5 | BDL0.5 | BDL0.5    | 0.5 DCM       |



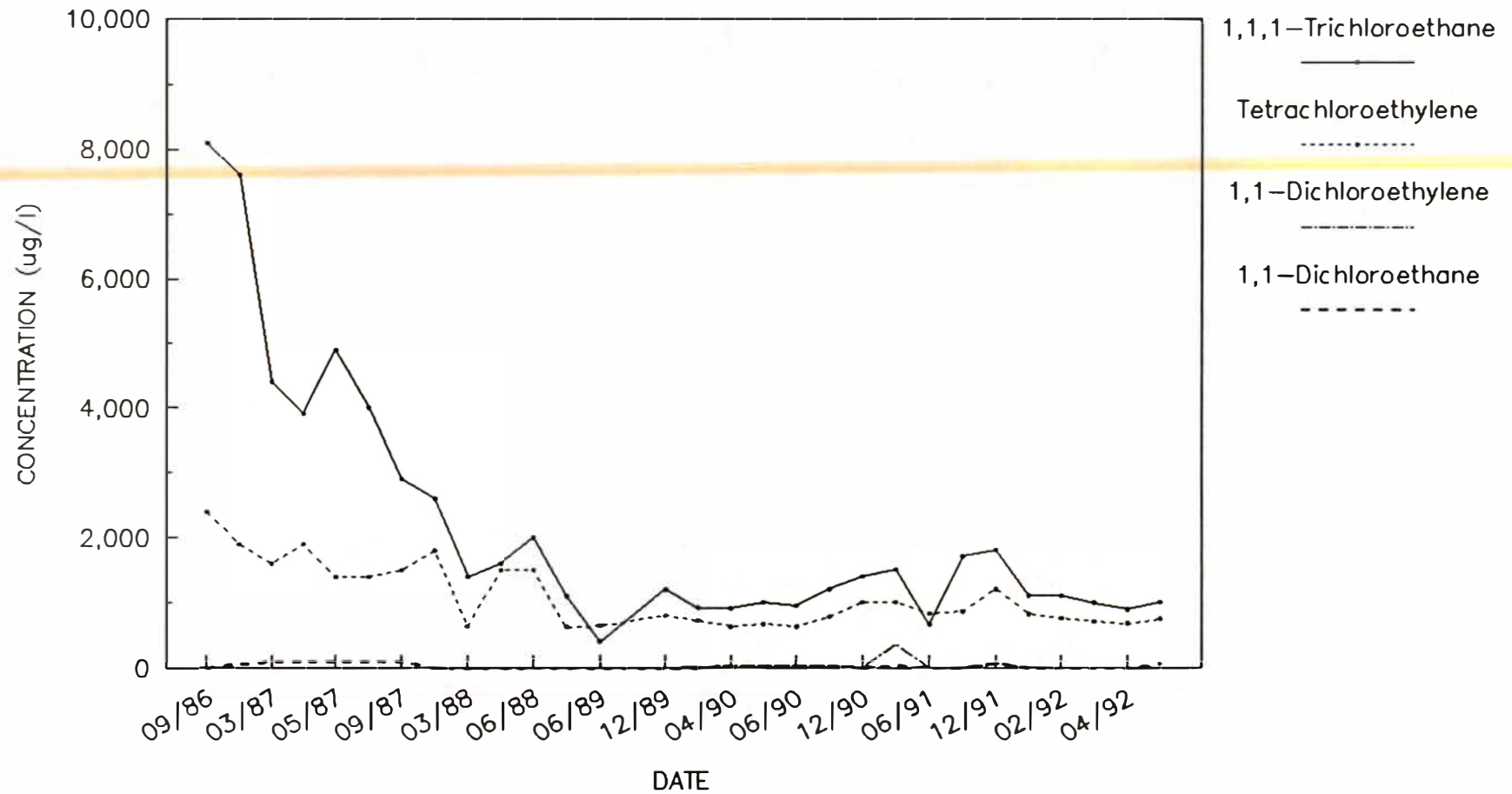


***APPENDIX S***  
***(UPDATED FEBRUARY 1993)***

***Water Quality versus Time Graphs***  
***(Monitoring Wells, Recovery Wells,***  
***TCA & TTCE at K-2 and M-2)***

# MILLER CONTAINER

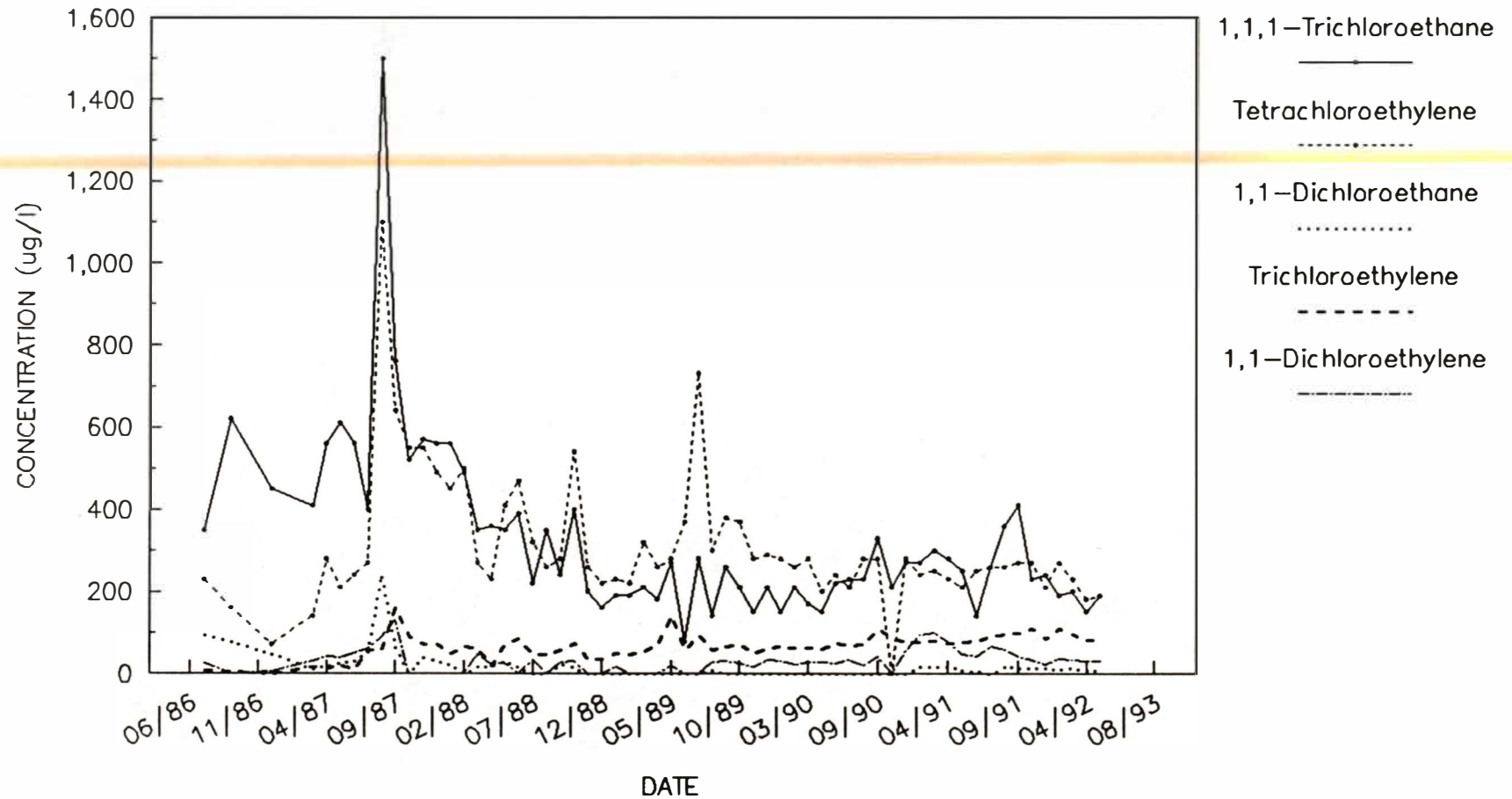
## MW-1S



Updated: 10/06/92

# MILLER CONTAINER

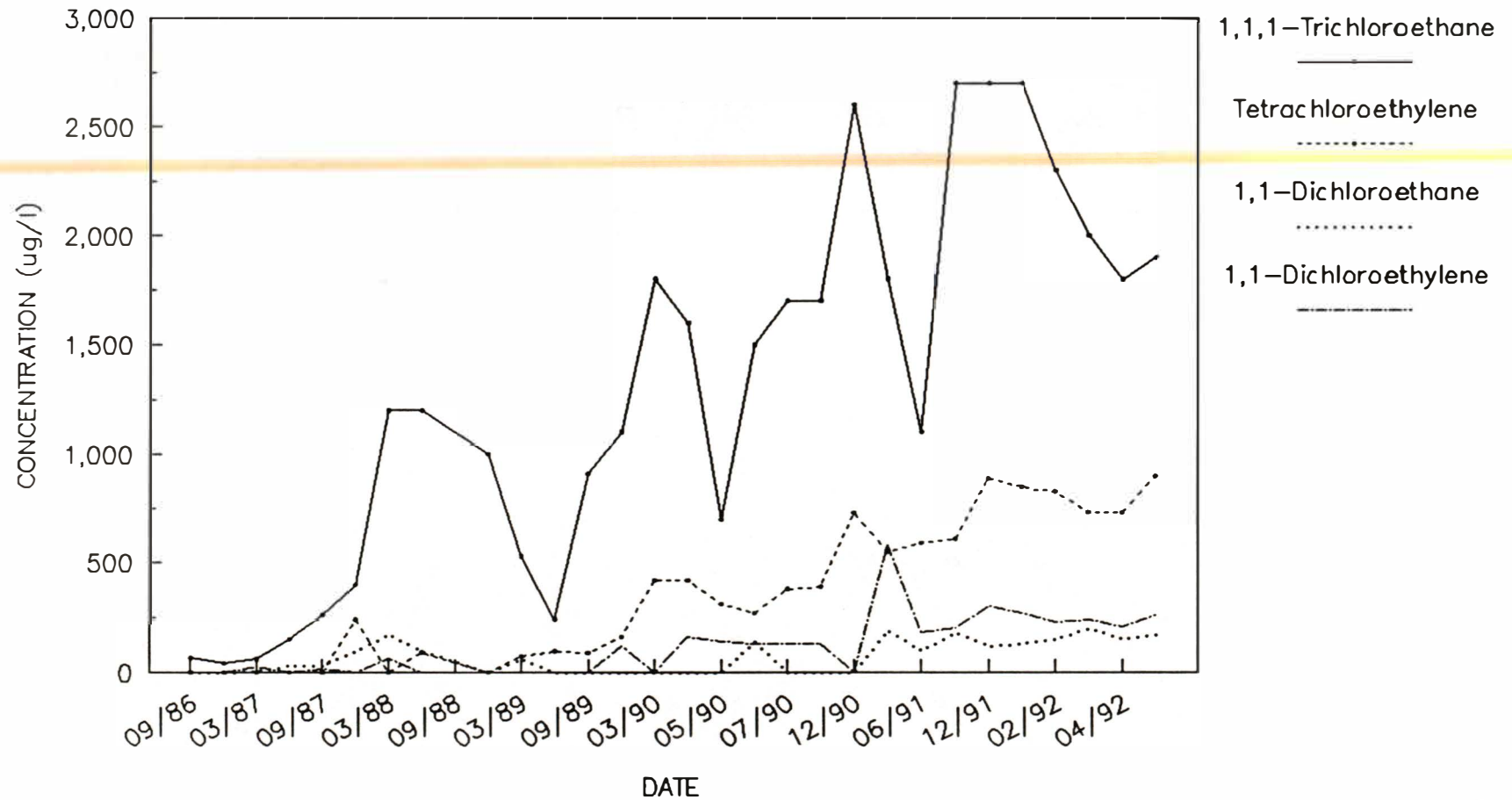
## MW-1D



Updated 10/06/92

# MILLER CONTAINER

## MW-2S

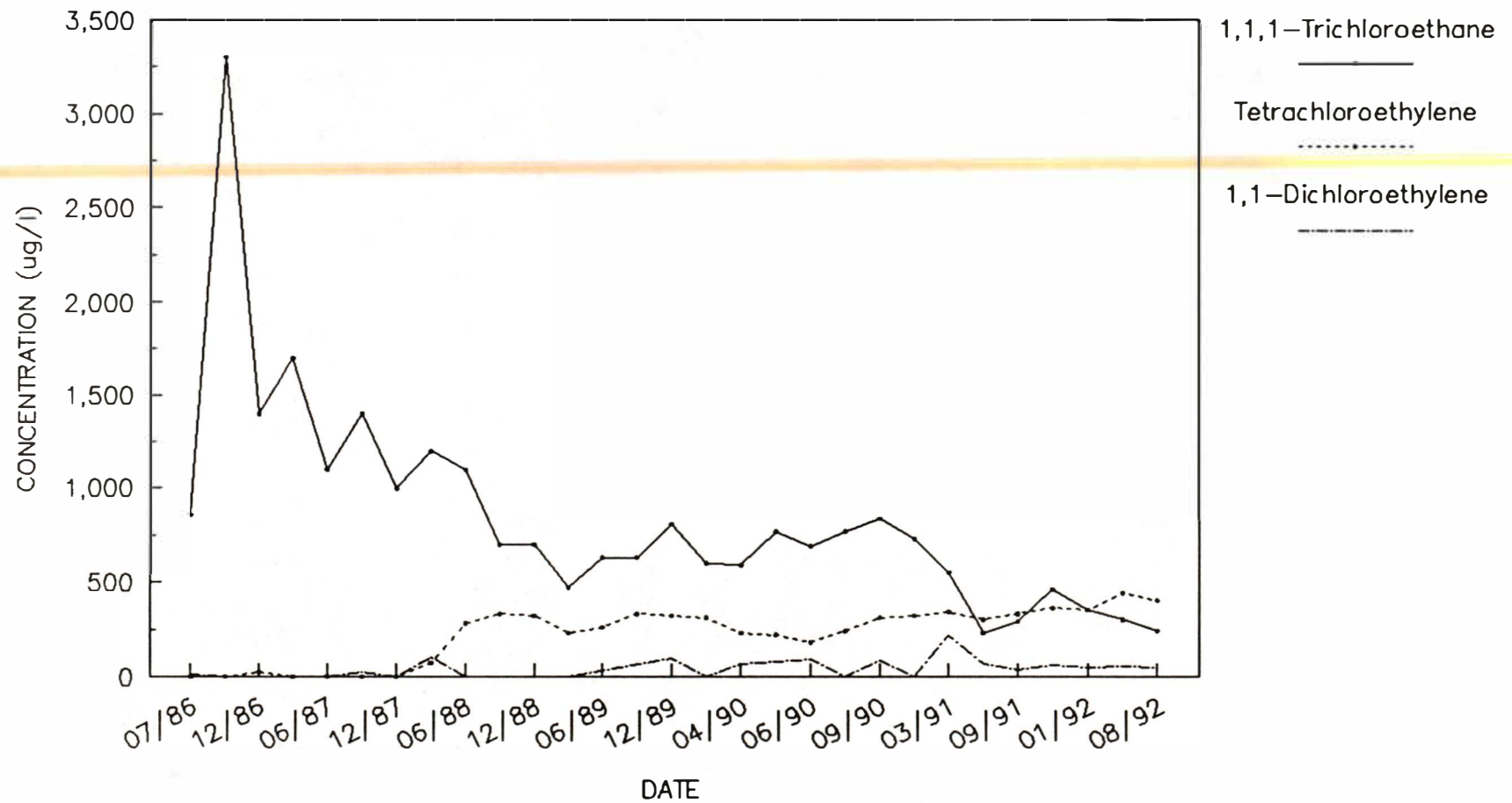


Updated 10/06/92



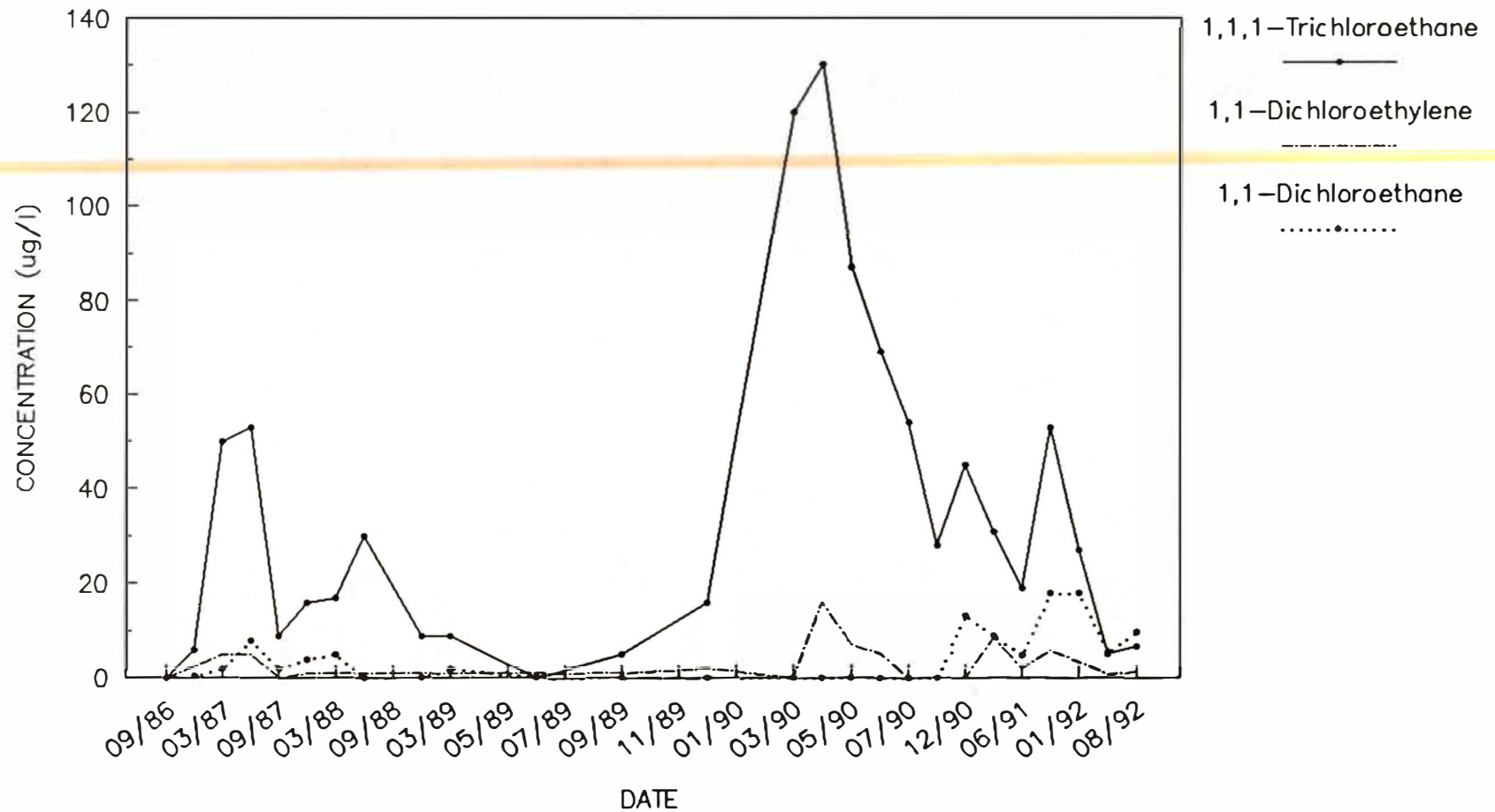
# MILLER CONTAINER

## MW-2D



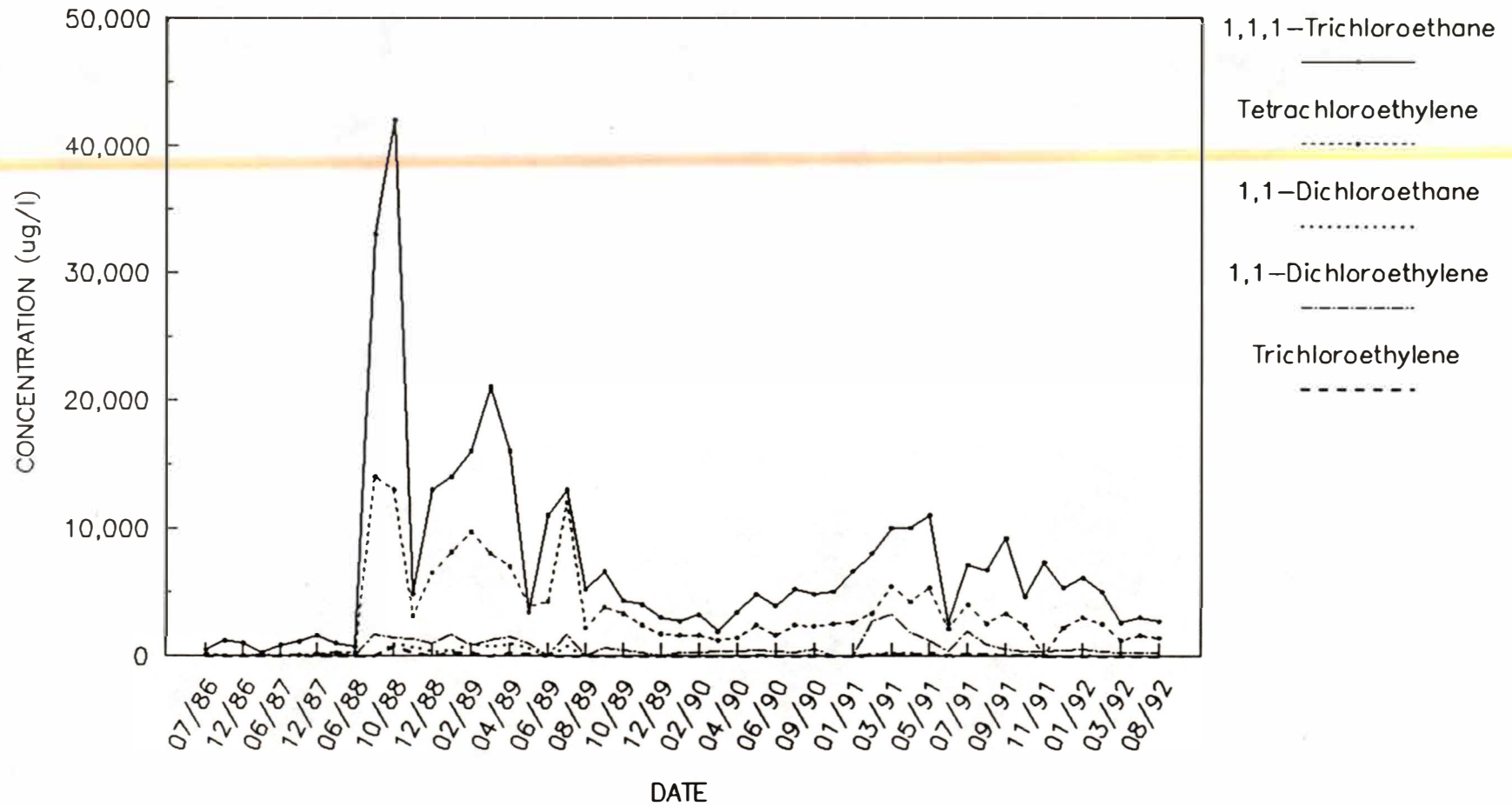
Updated 10/06/92

# MILLER CONTAINER MW-3S



# MILLER CONTAINER

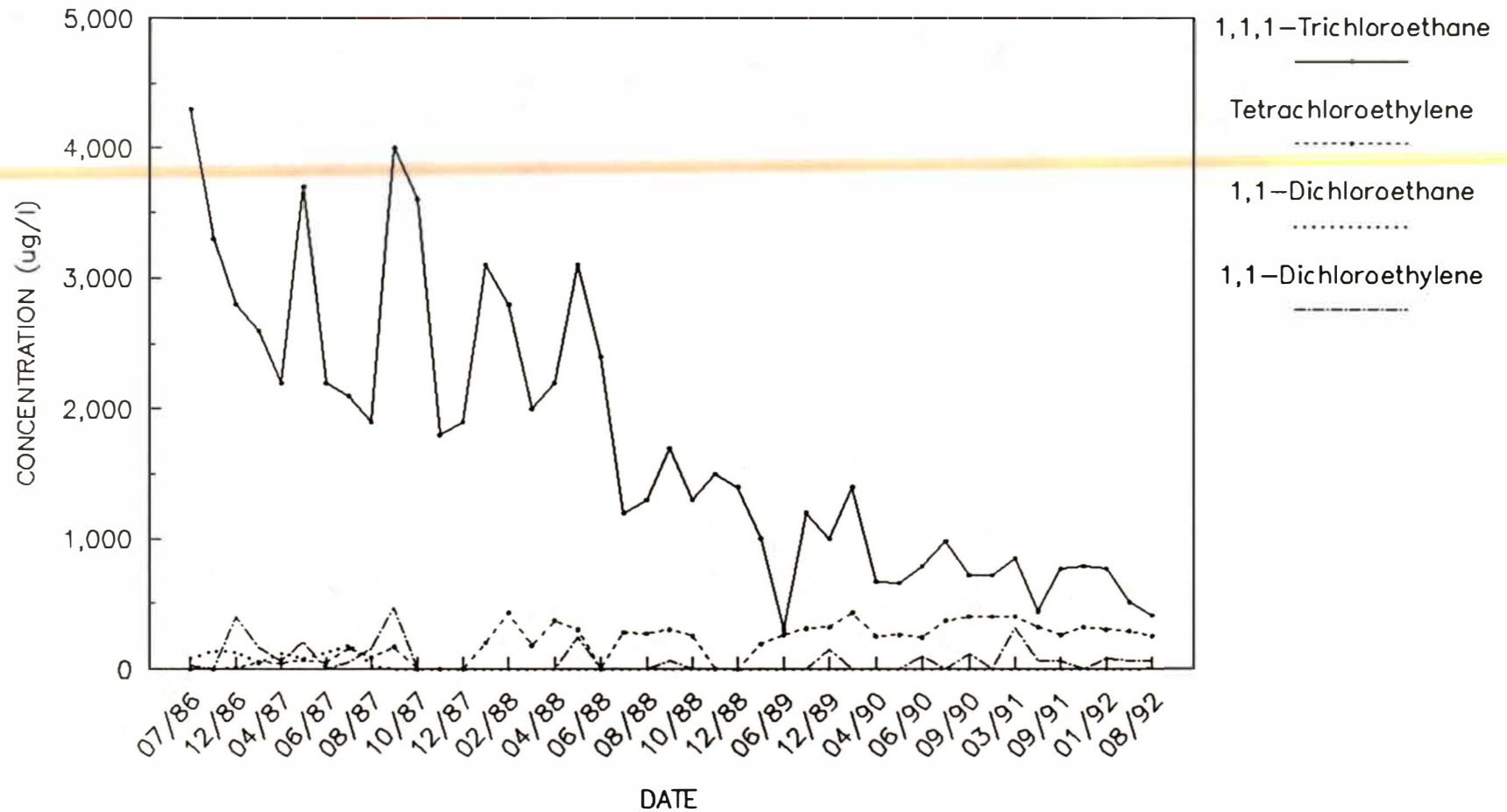
## MW-3D



Updated 10/06/92

# MILLER CONTAINER

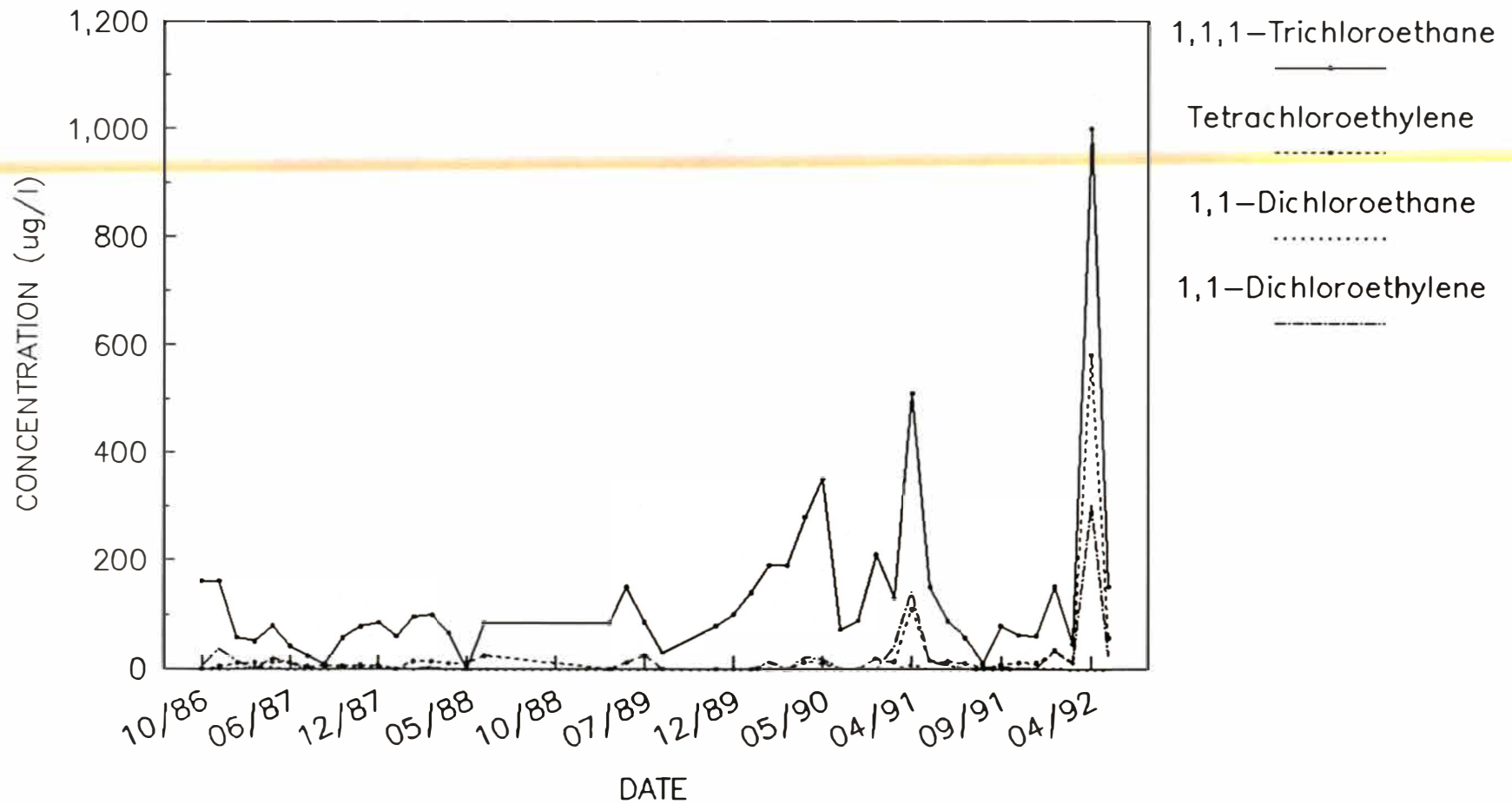
## MW-4D



Updated 10/06/92

# MILLER CONTAINER

## MW-6S

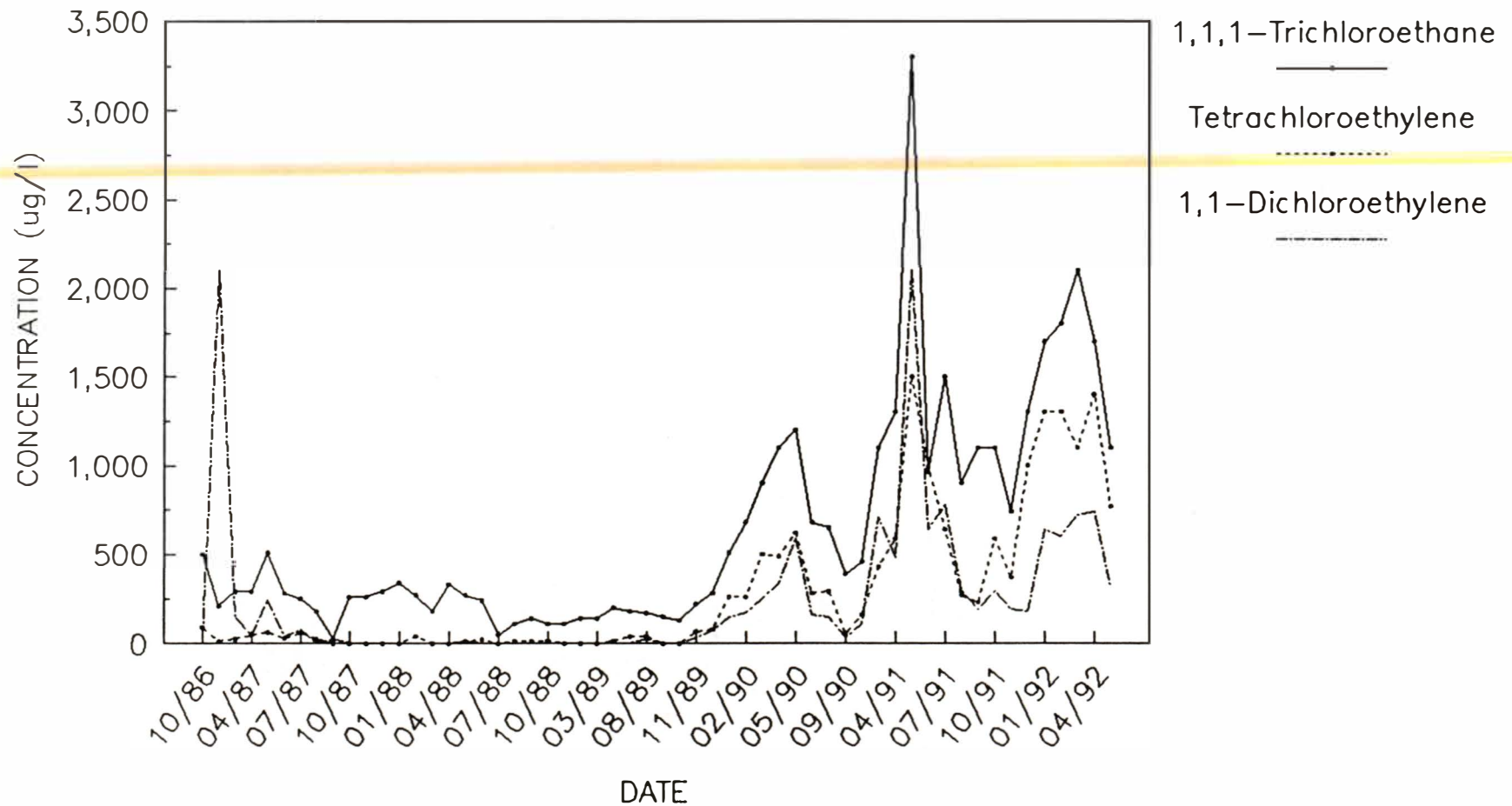


Updated: 10/06/92



# MILLER CONTAINER

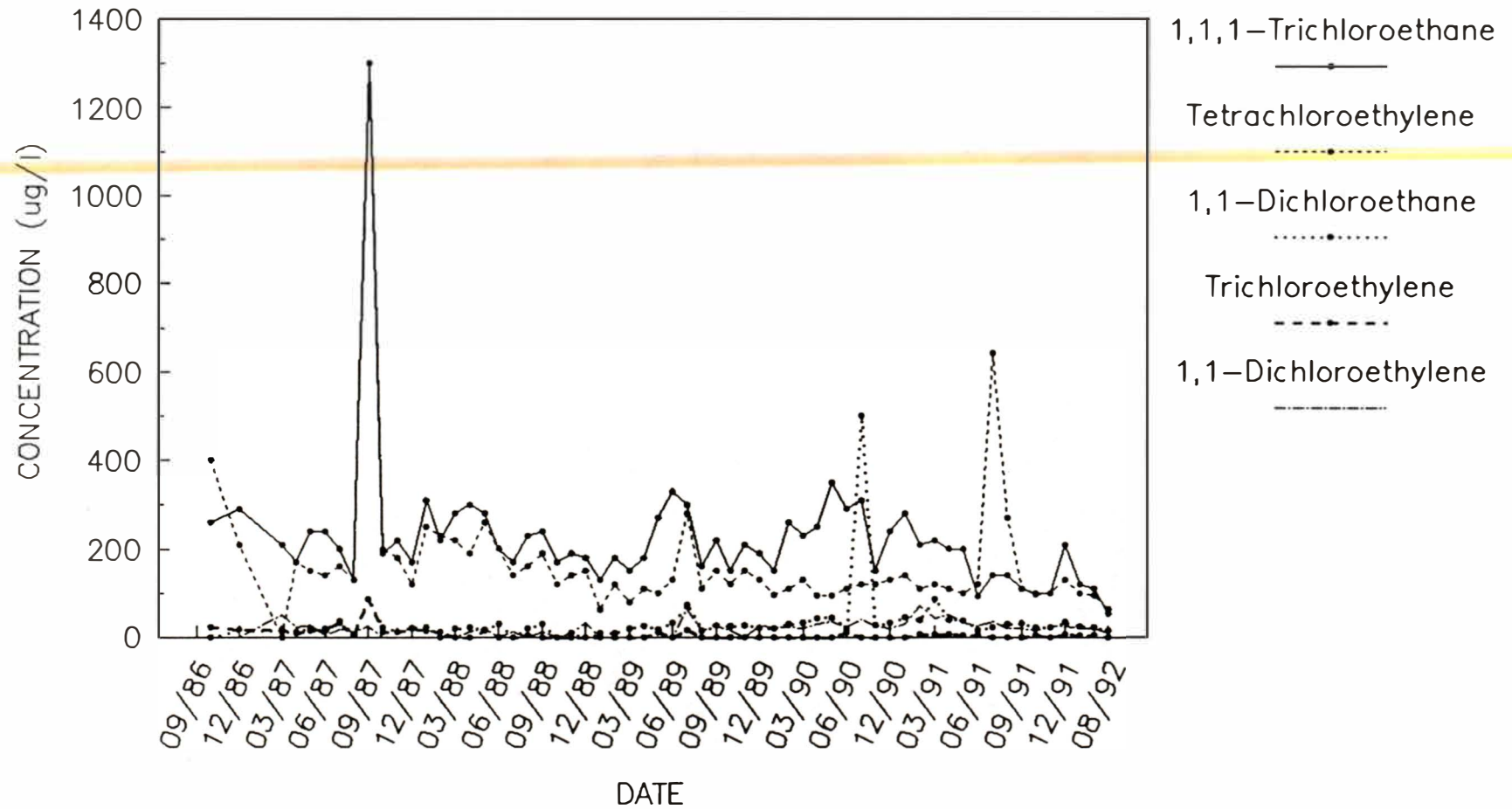
## MW-6I



Updated 10/06/92

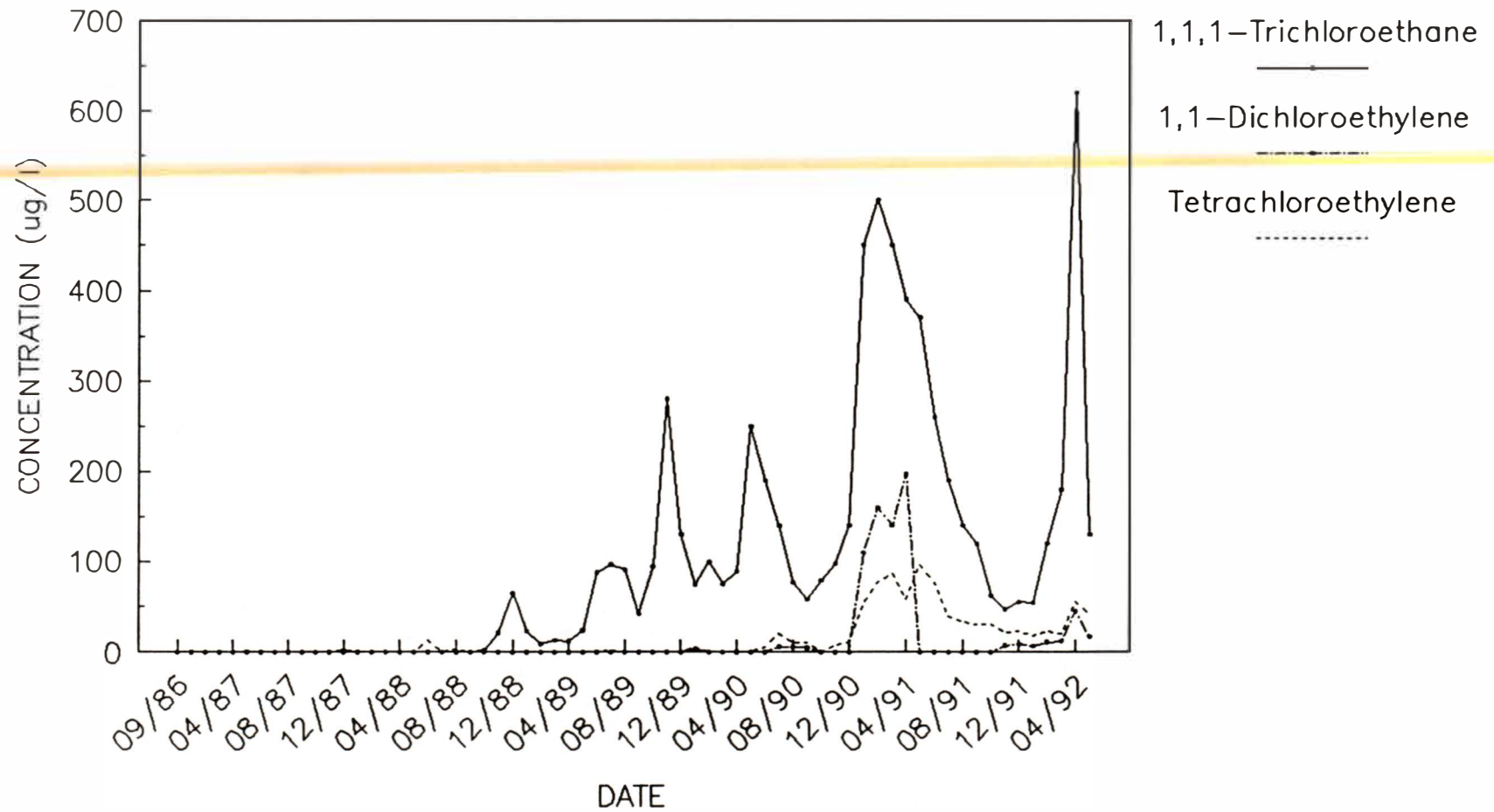
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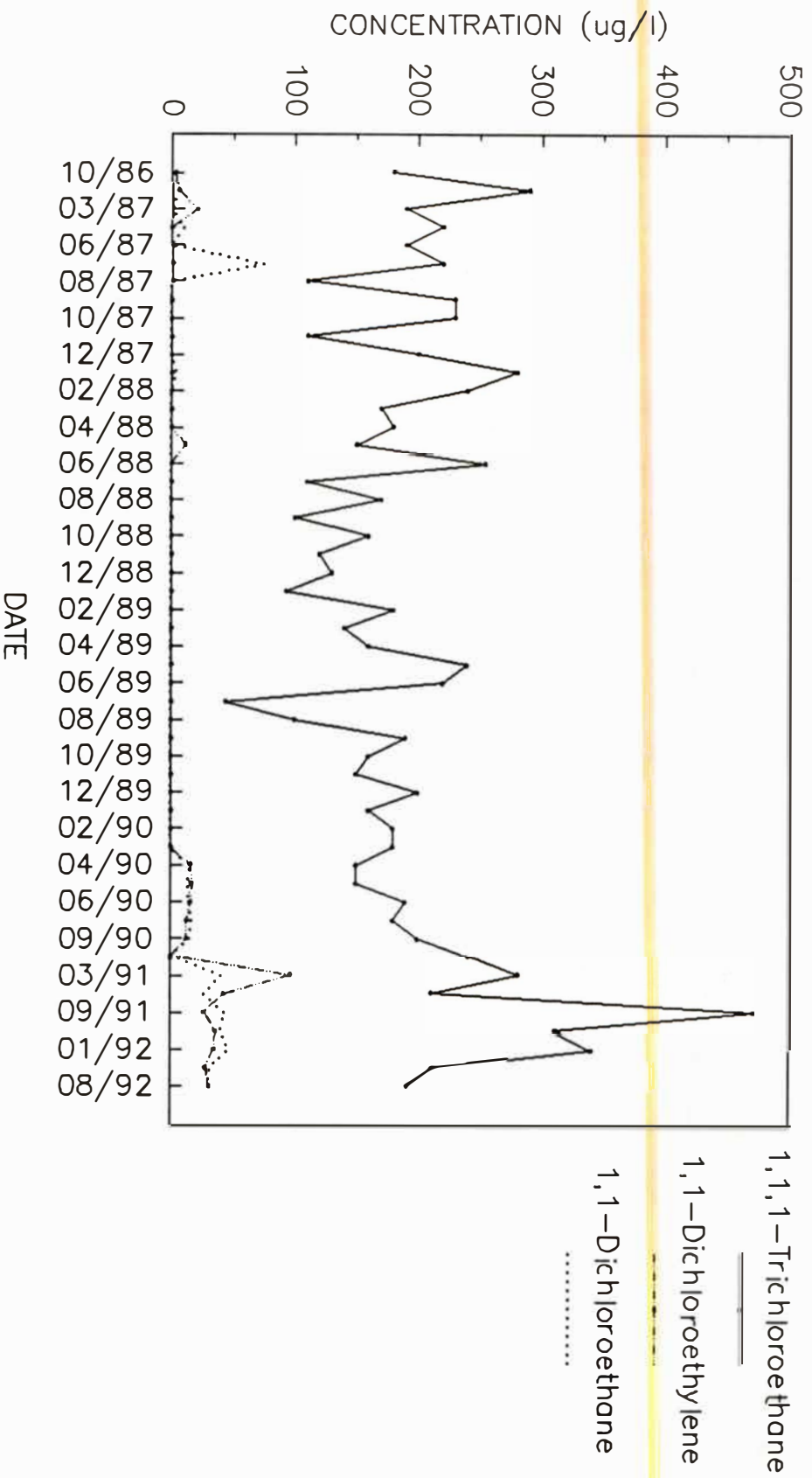
Updated 10/06/92

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Updated 10/06/92

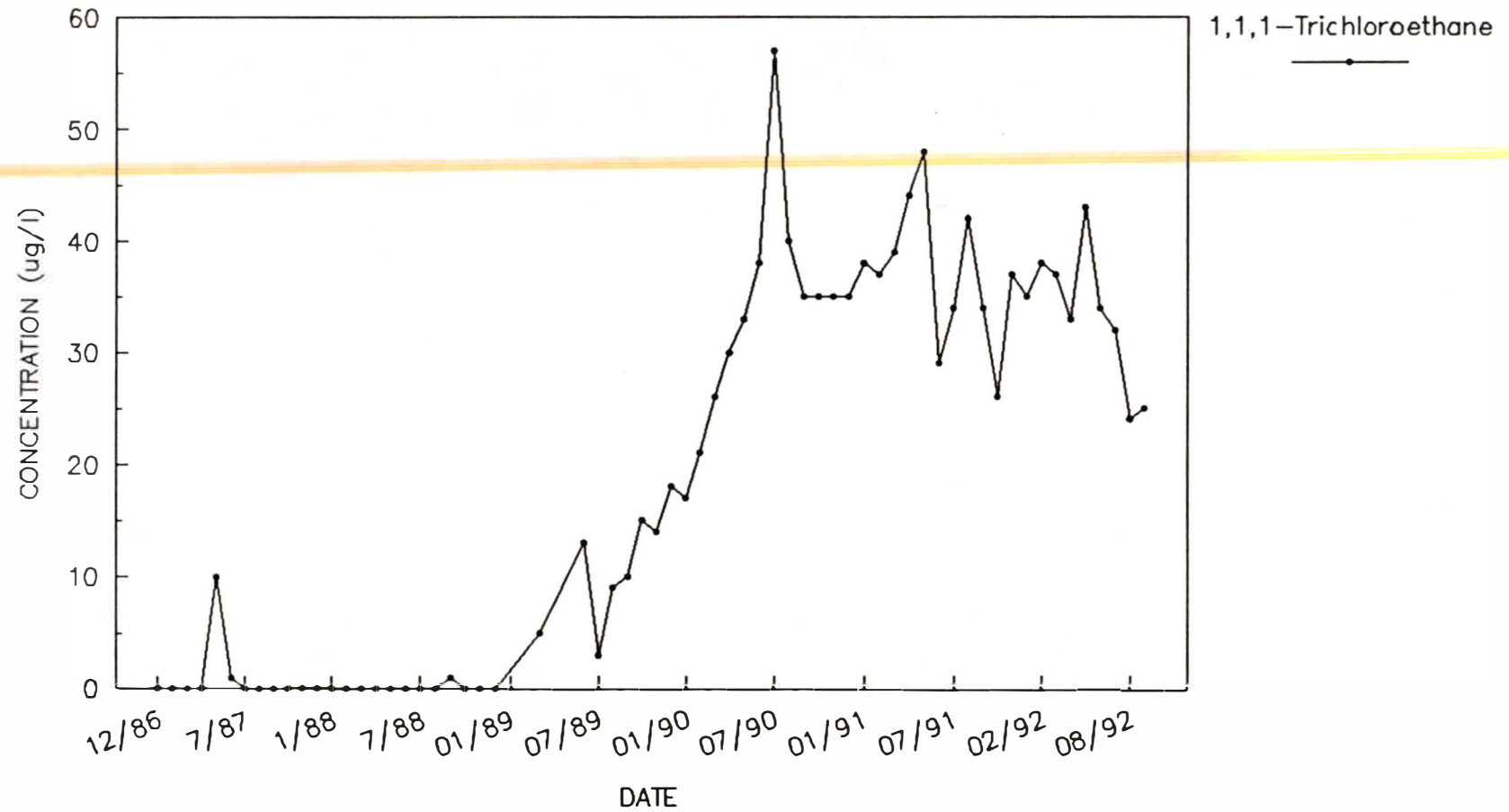
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Updated: 10/06/92

# MILLER CONTAINER

## MW-13D

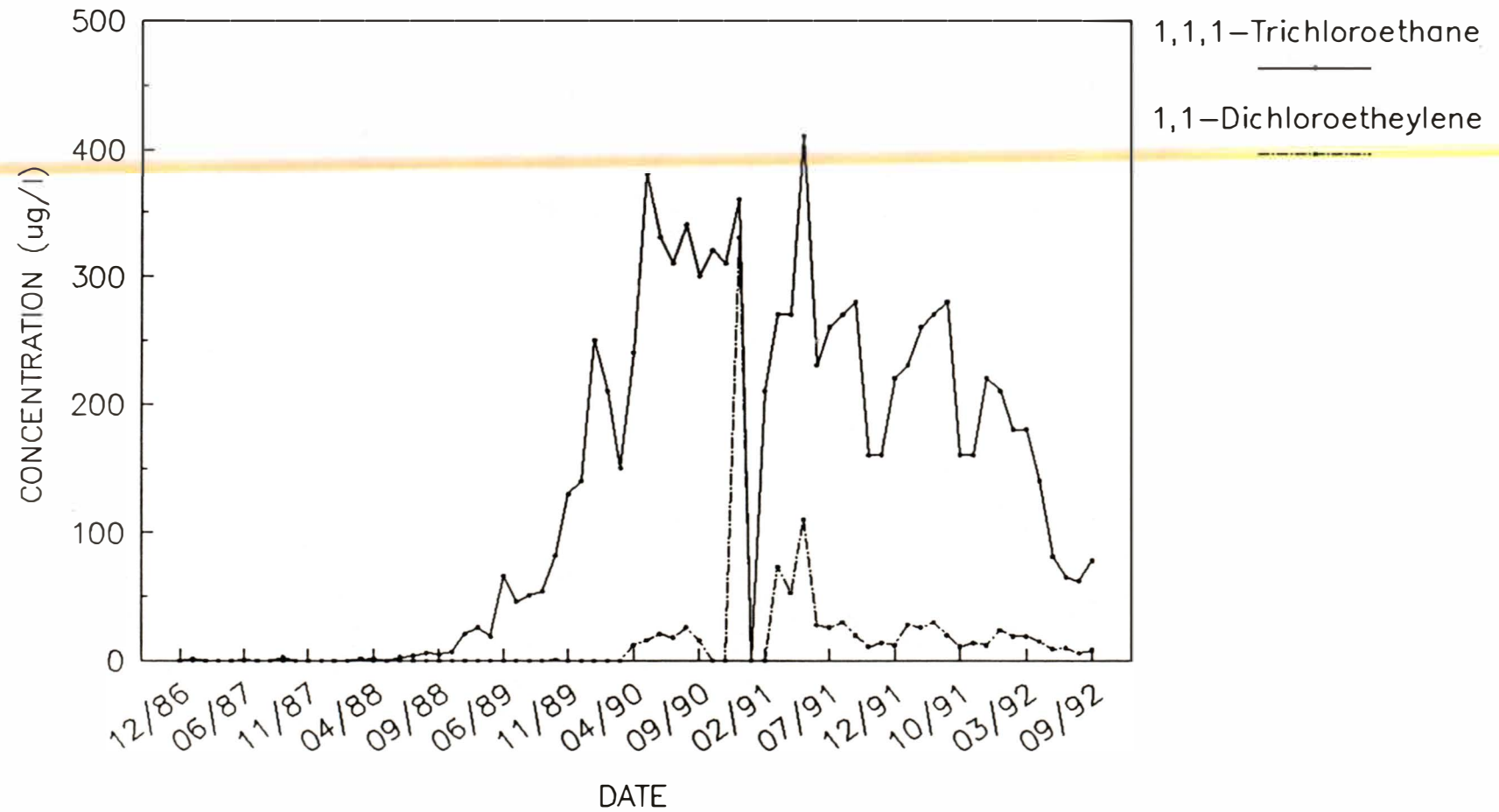


Updated 10/06/92



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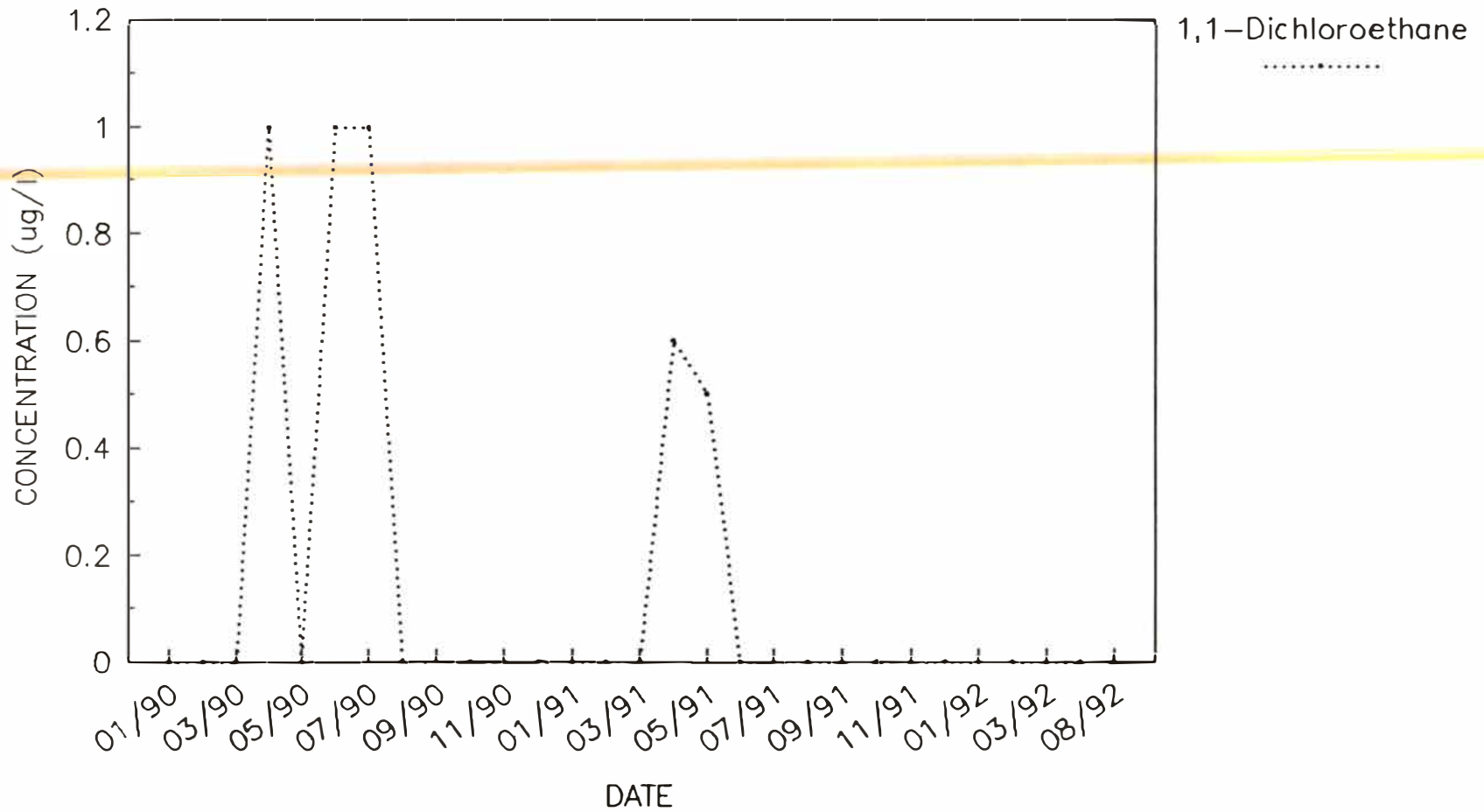
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Updated 10/06/92

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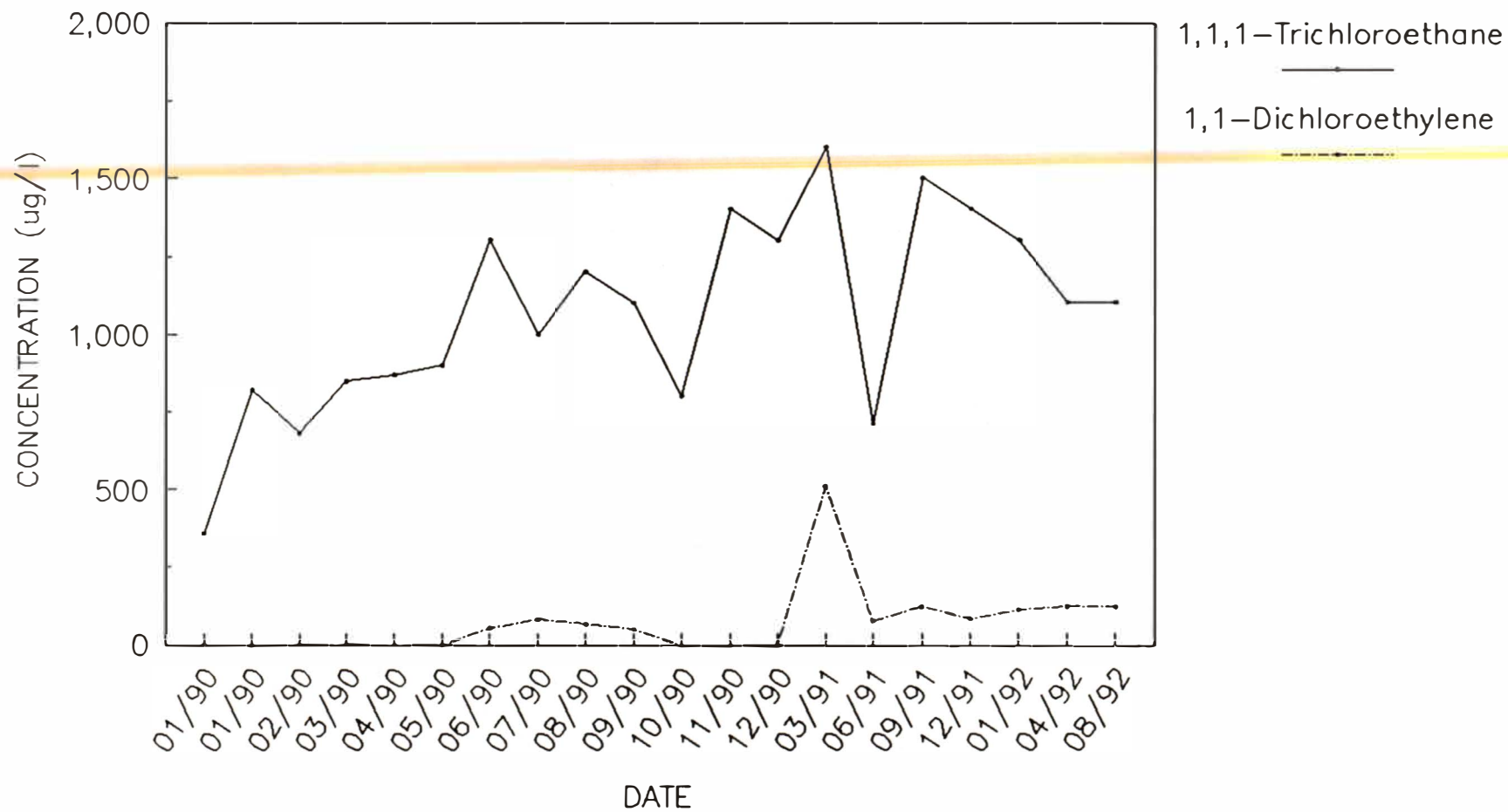
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Updated 10/06/92

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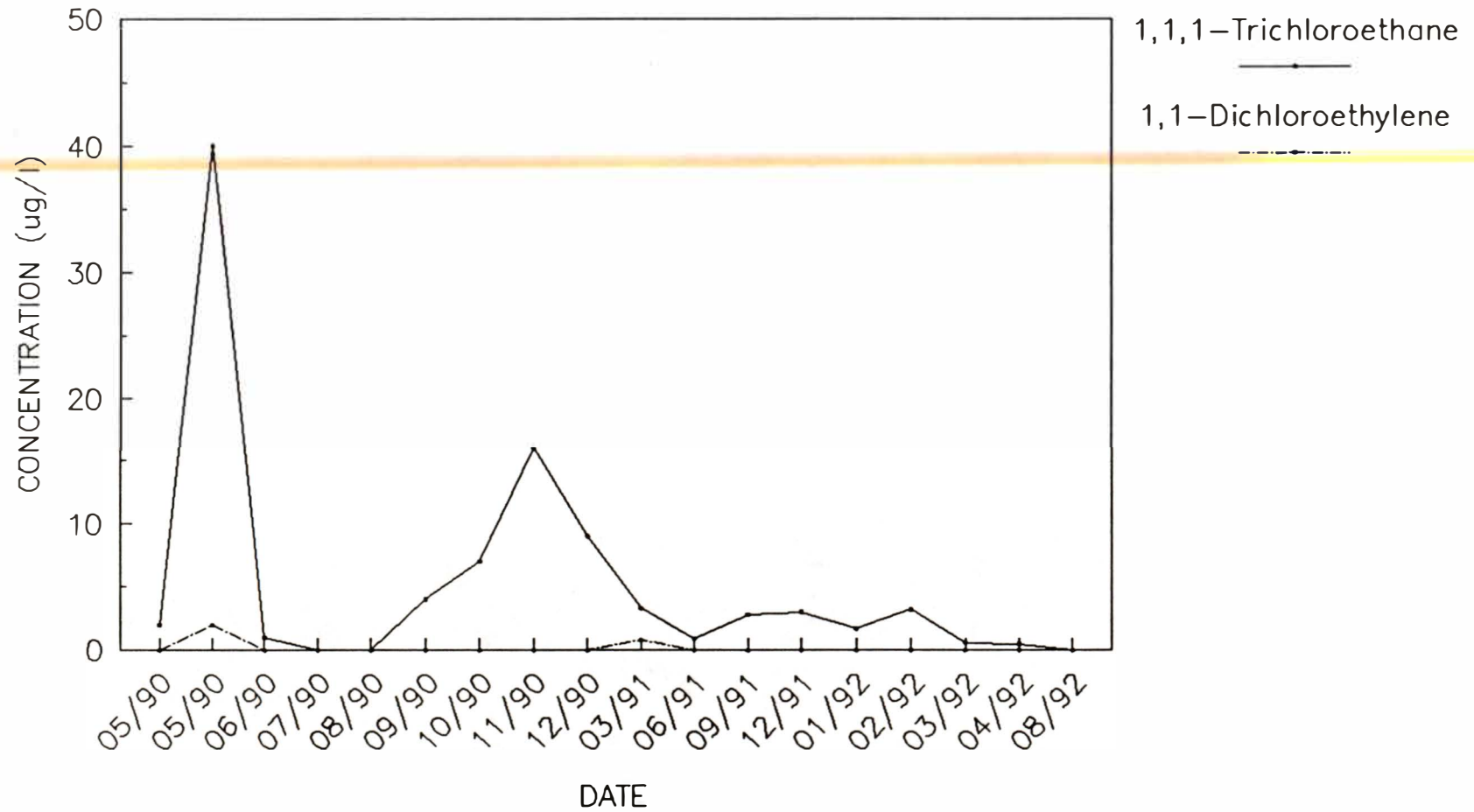
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Updated 10/06/92

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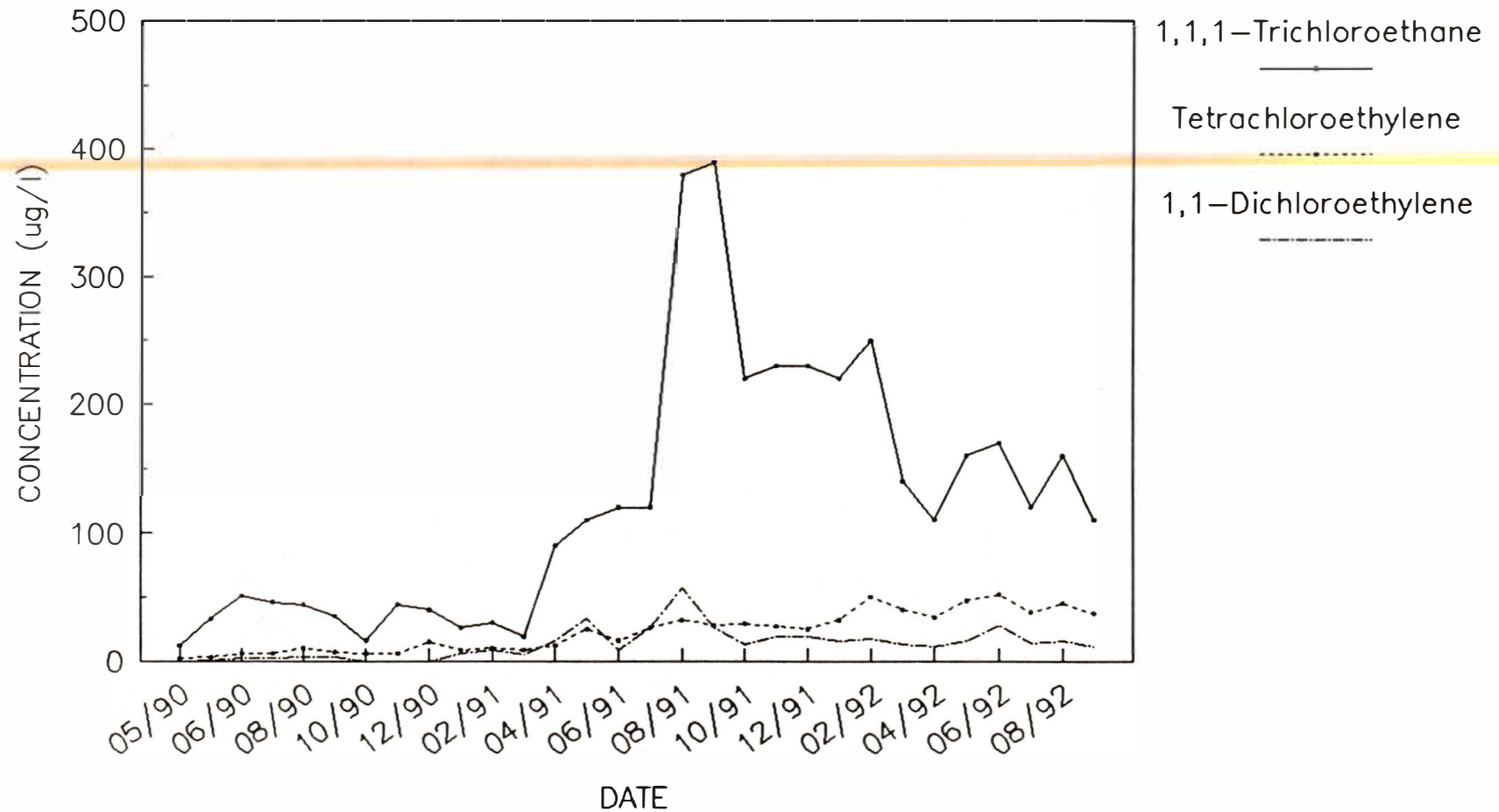
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Updated 10/06/92

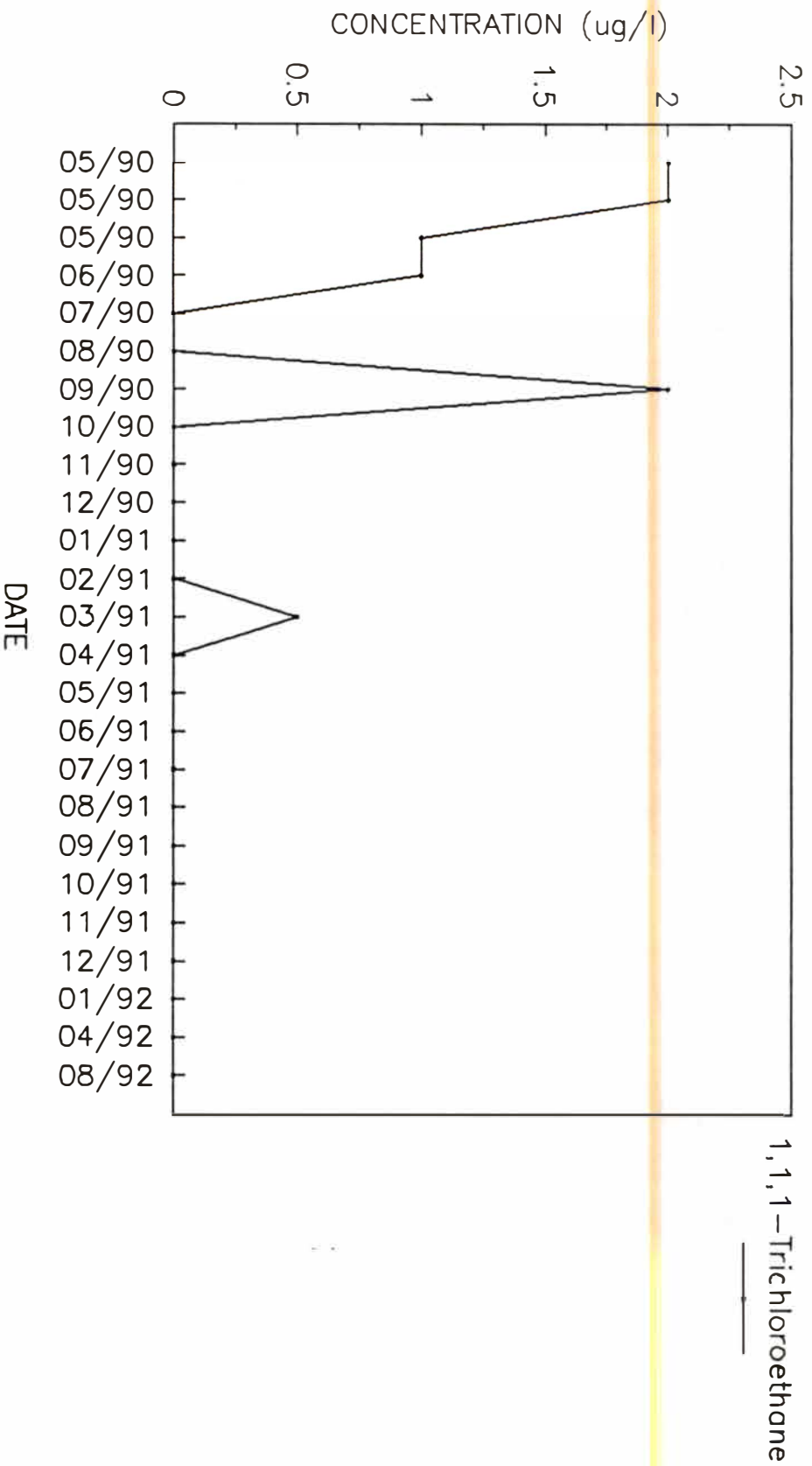
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Updated 10/06/92

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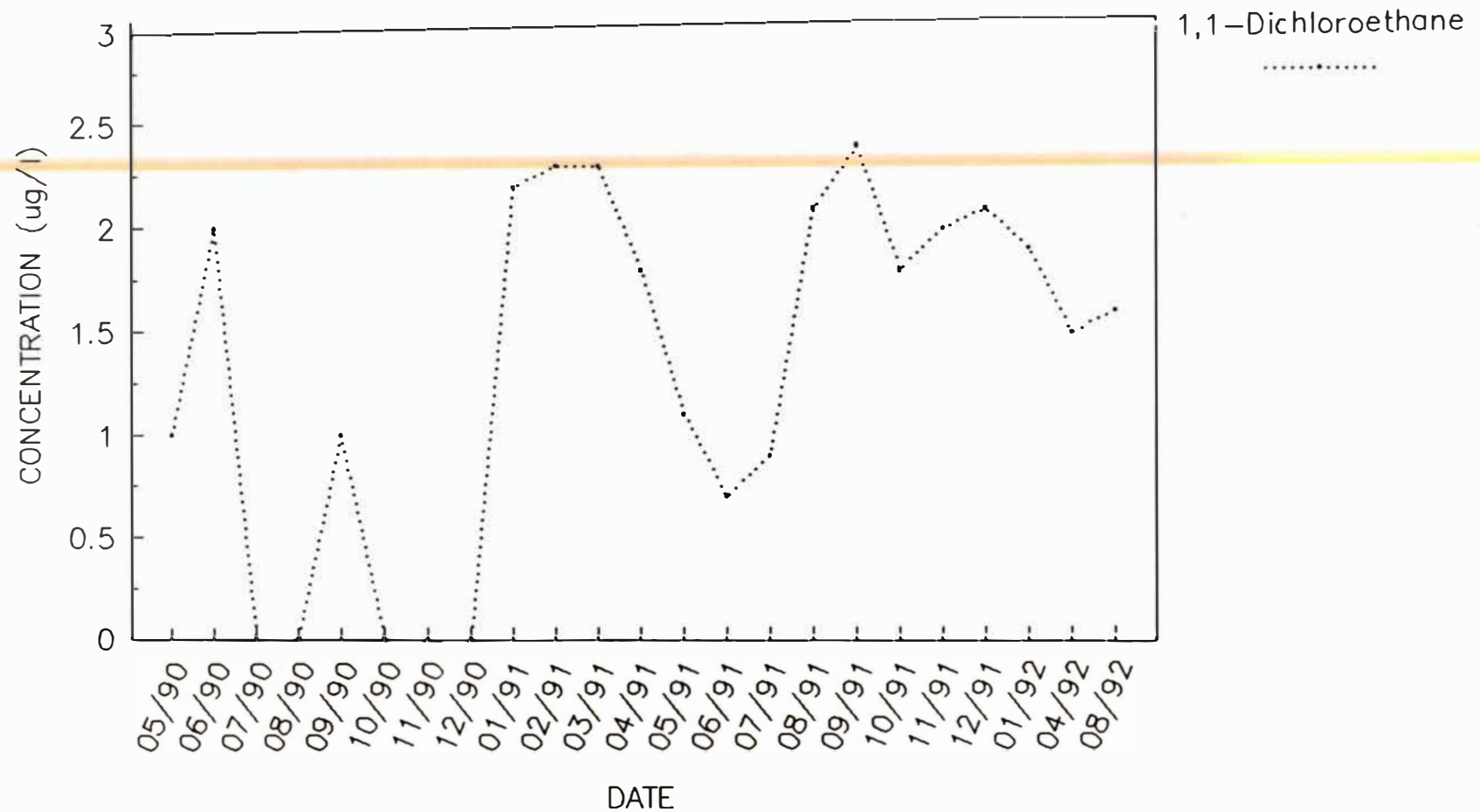


Updated 10/06/92



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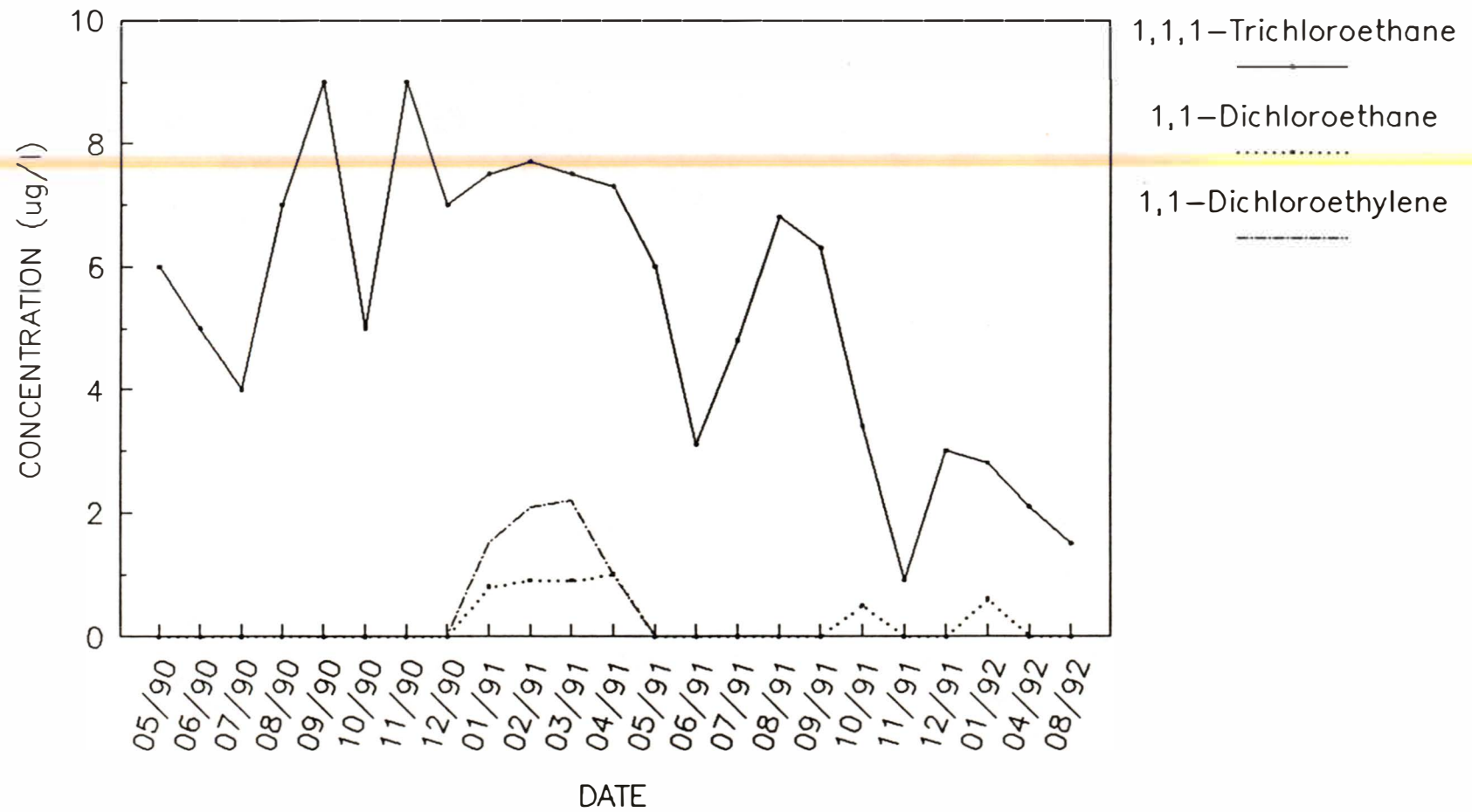
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Updated 10/06/92

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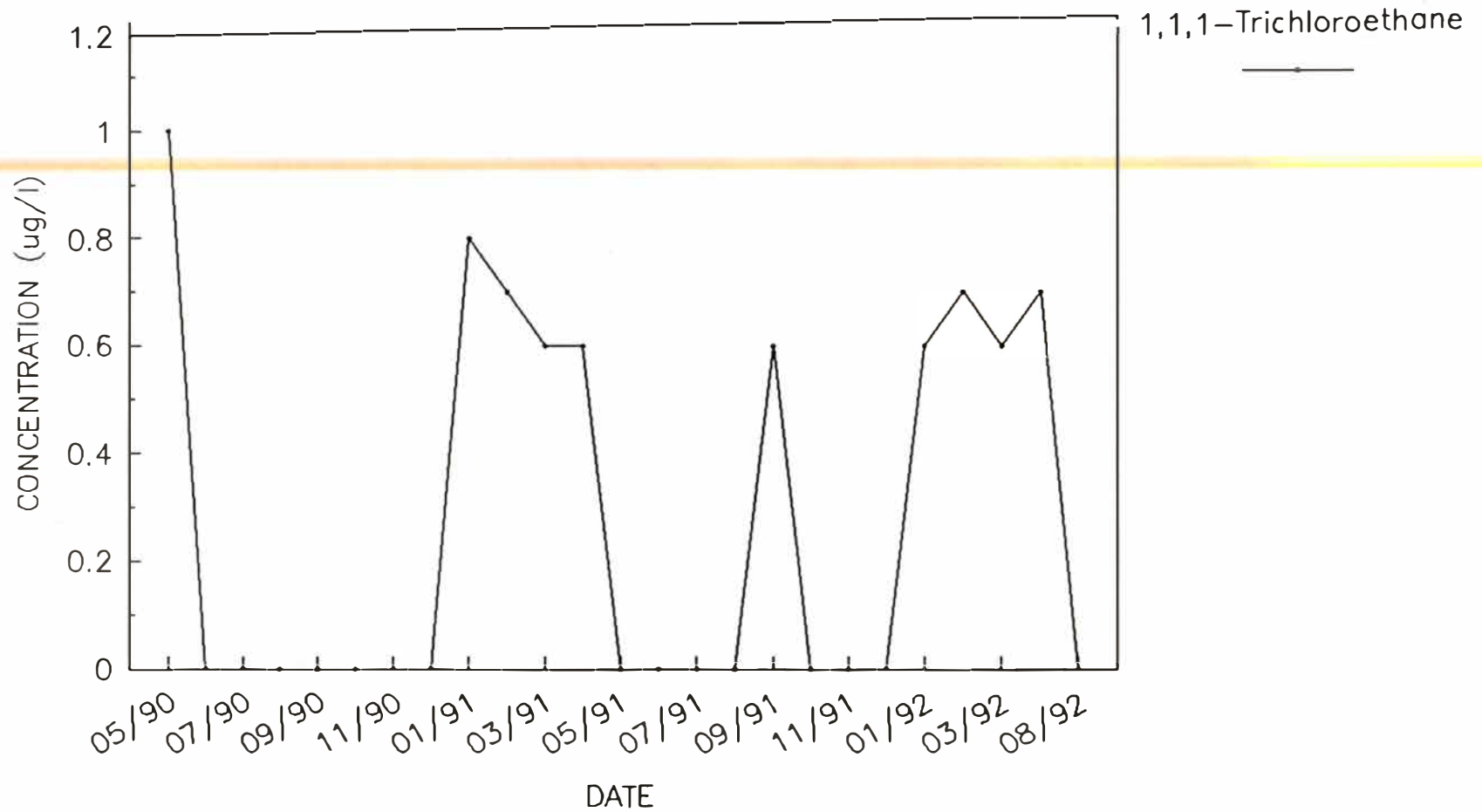
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Updated 10/06/92

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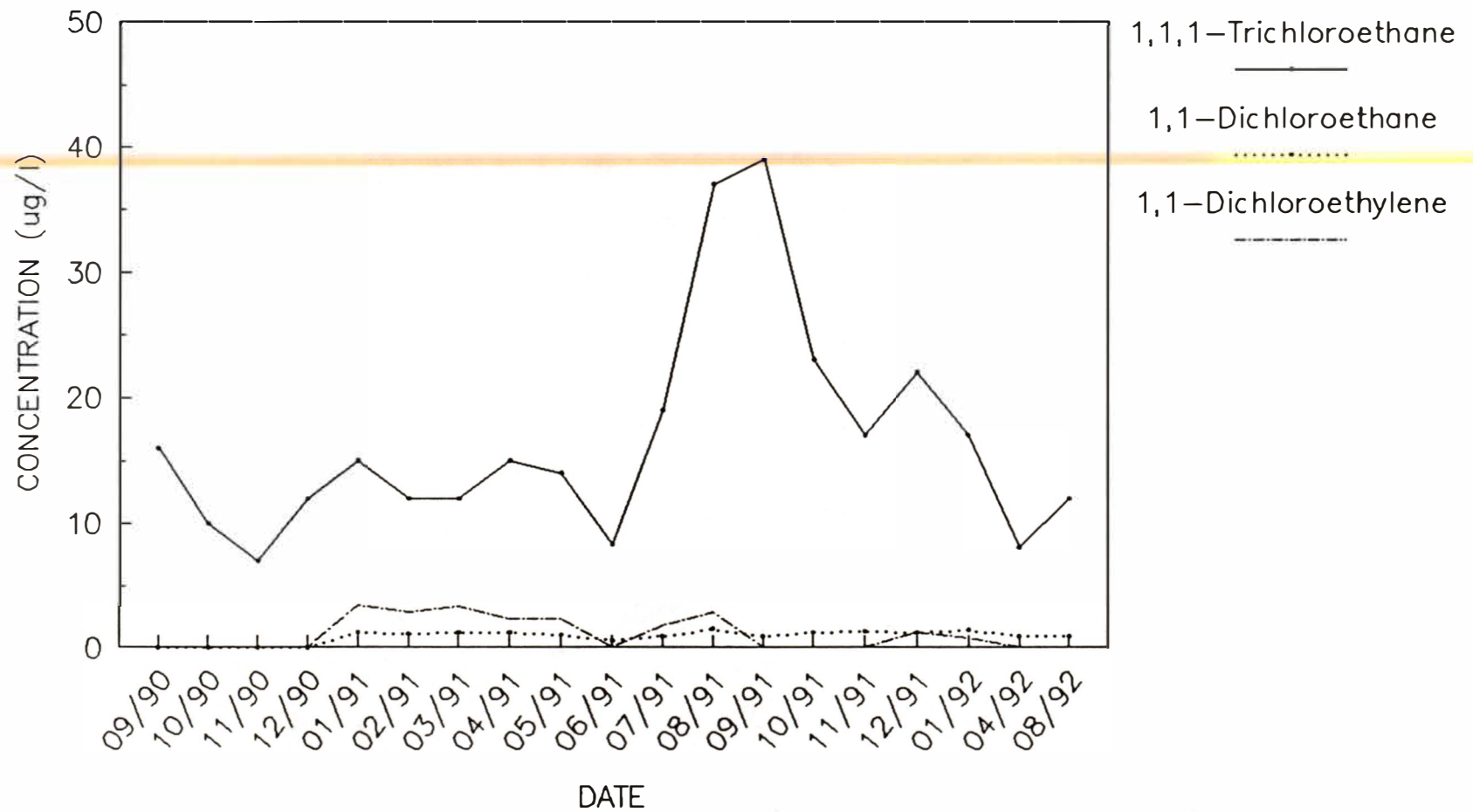
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Updated 10/06/92

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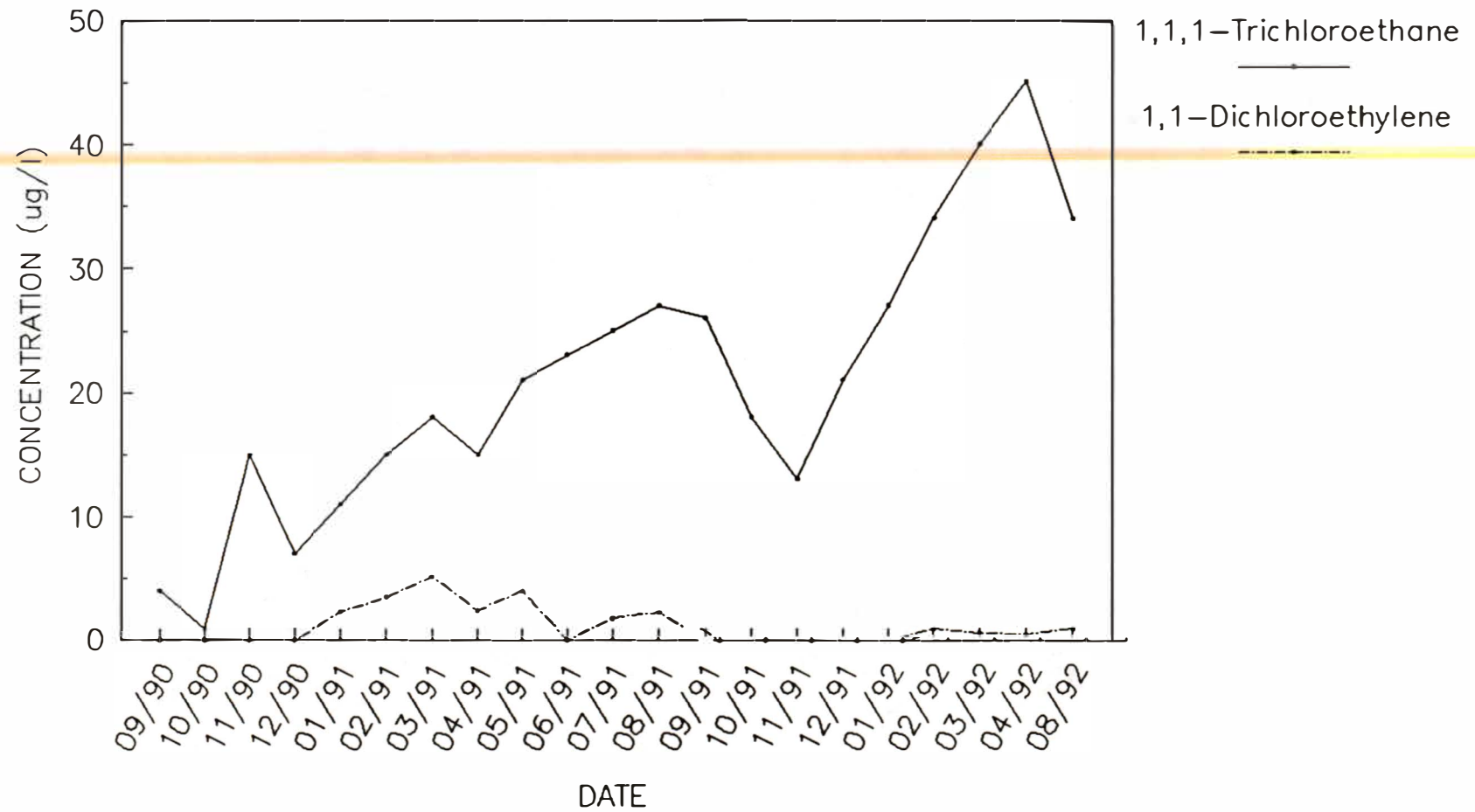
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Updated 10/06/92

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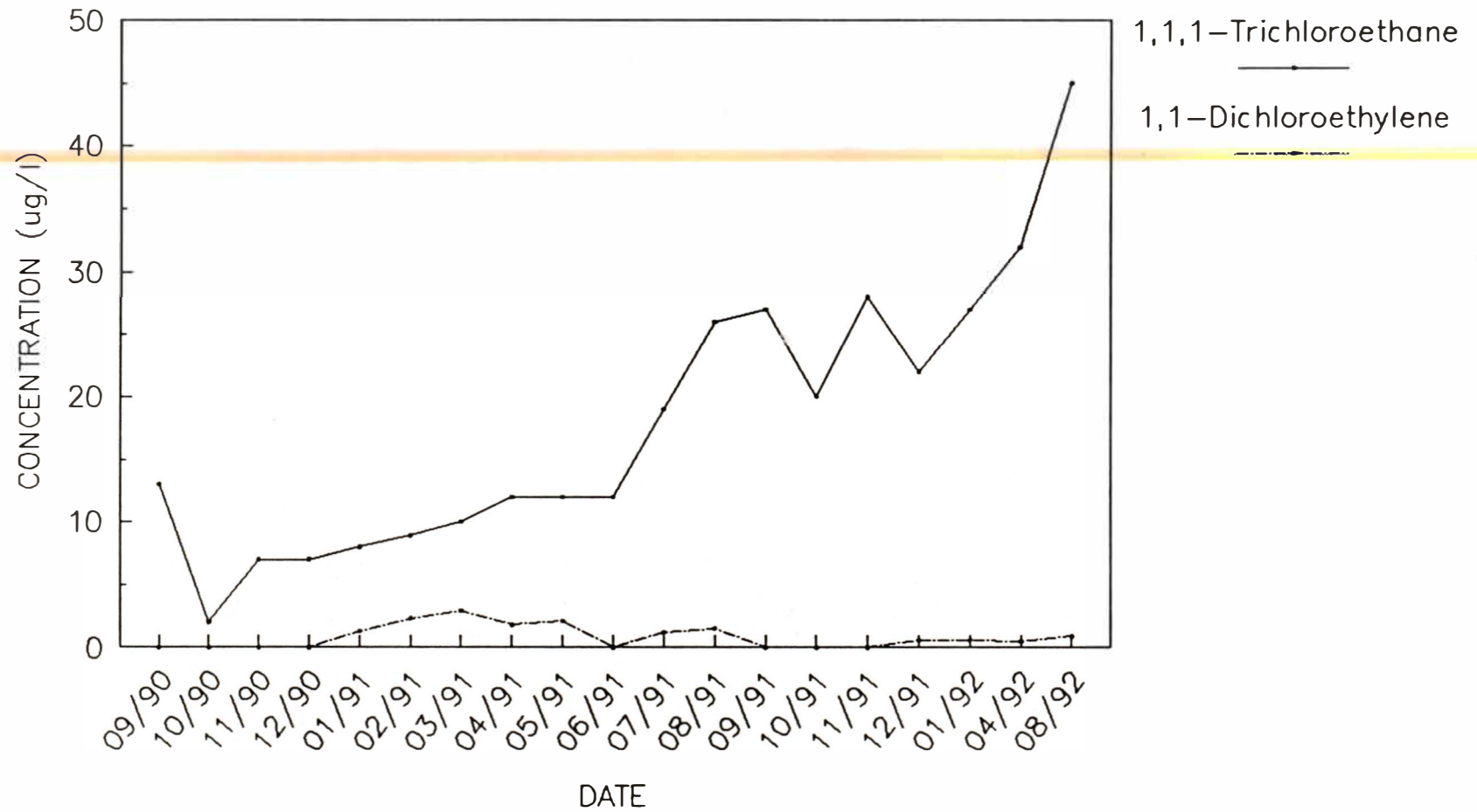
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Updated 10/06/92

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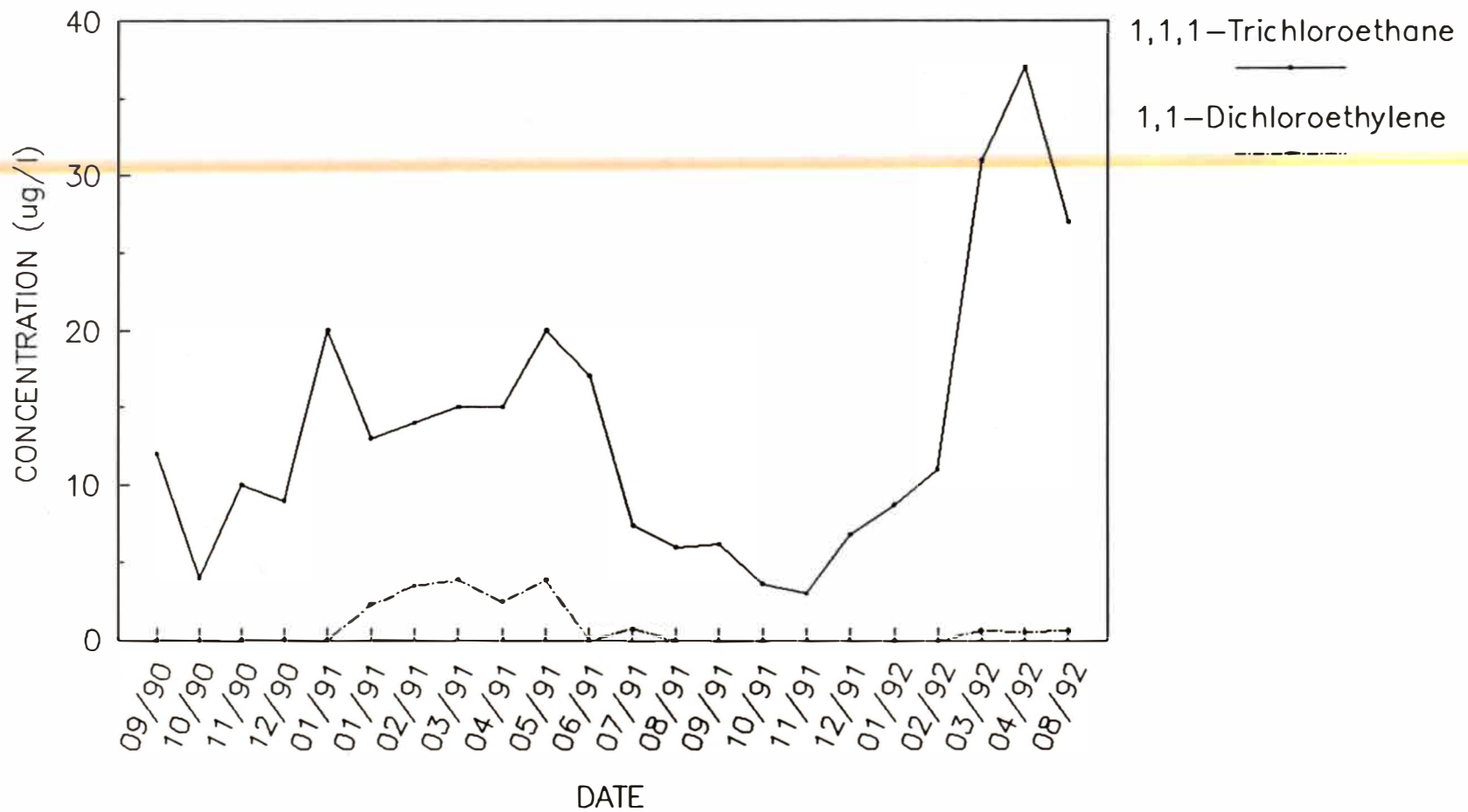


Updated 10/06/92



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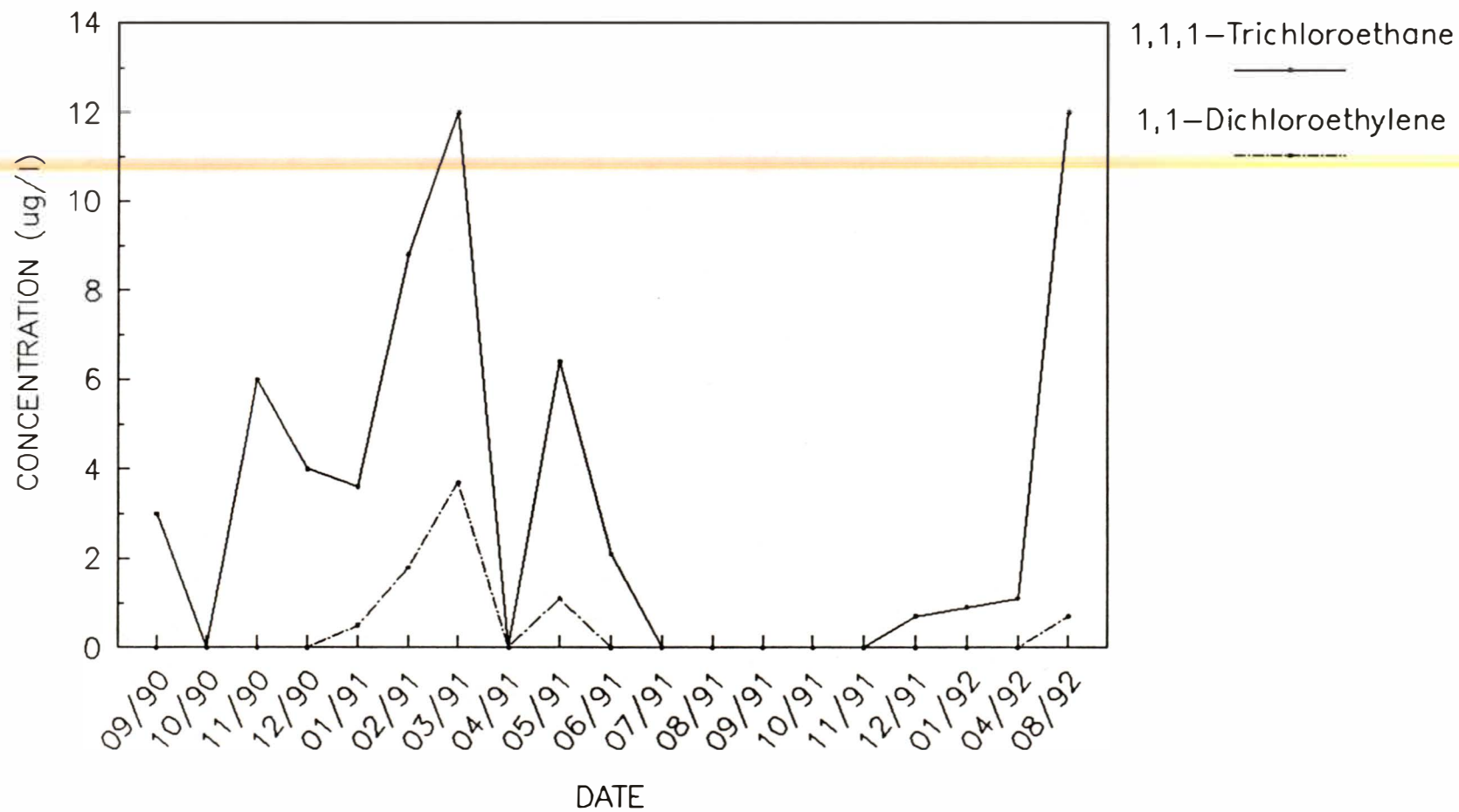
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Updated 10/06/92

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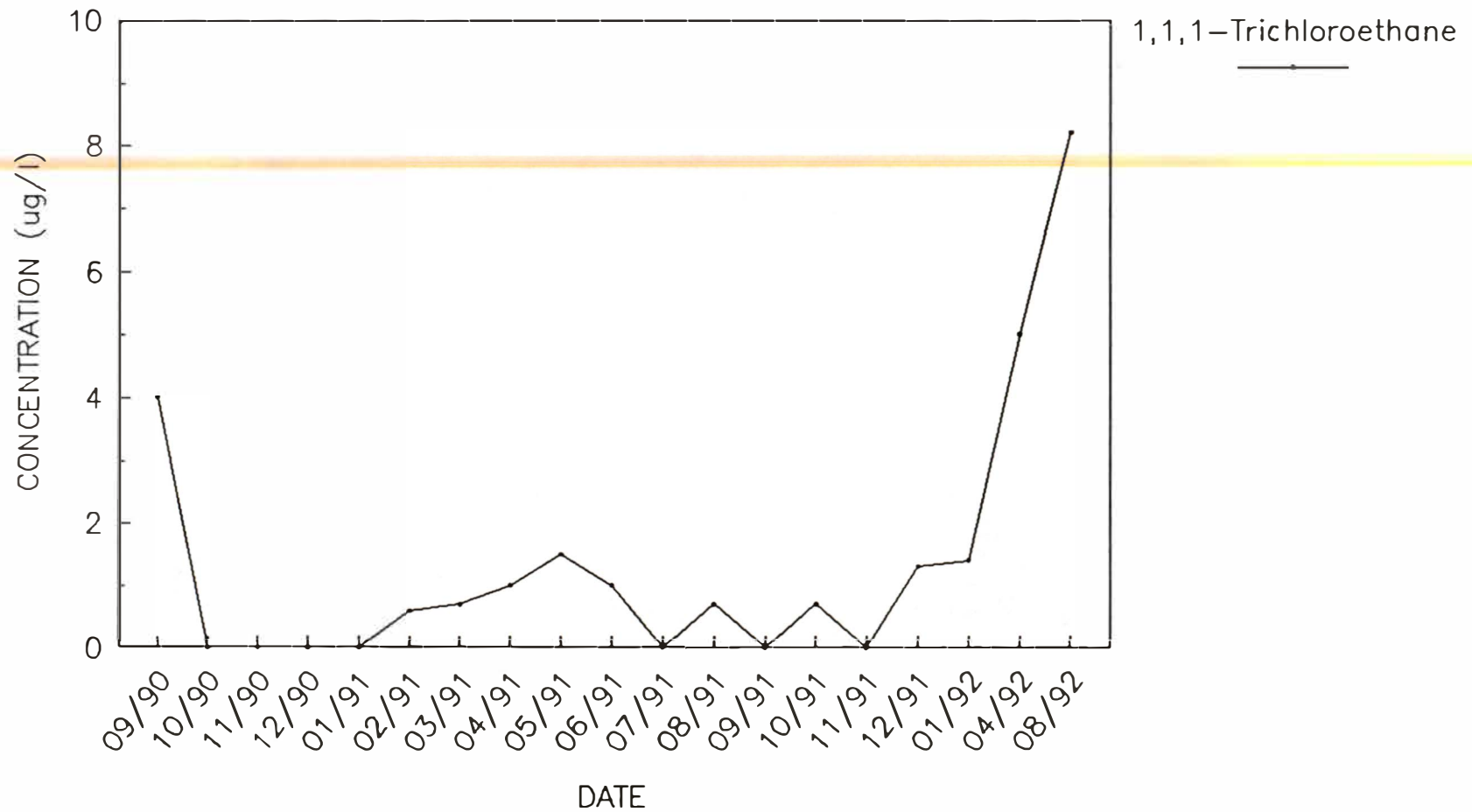
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Updated 10/06/92

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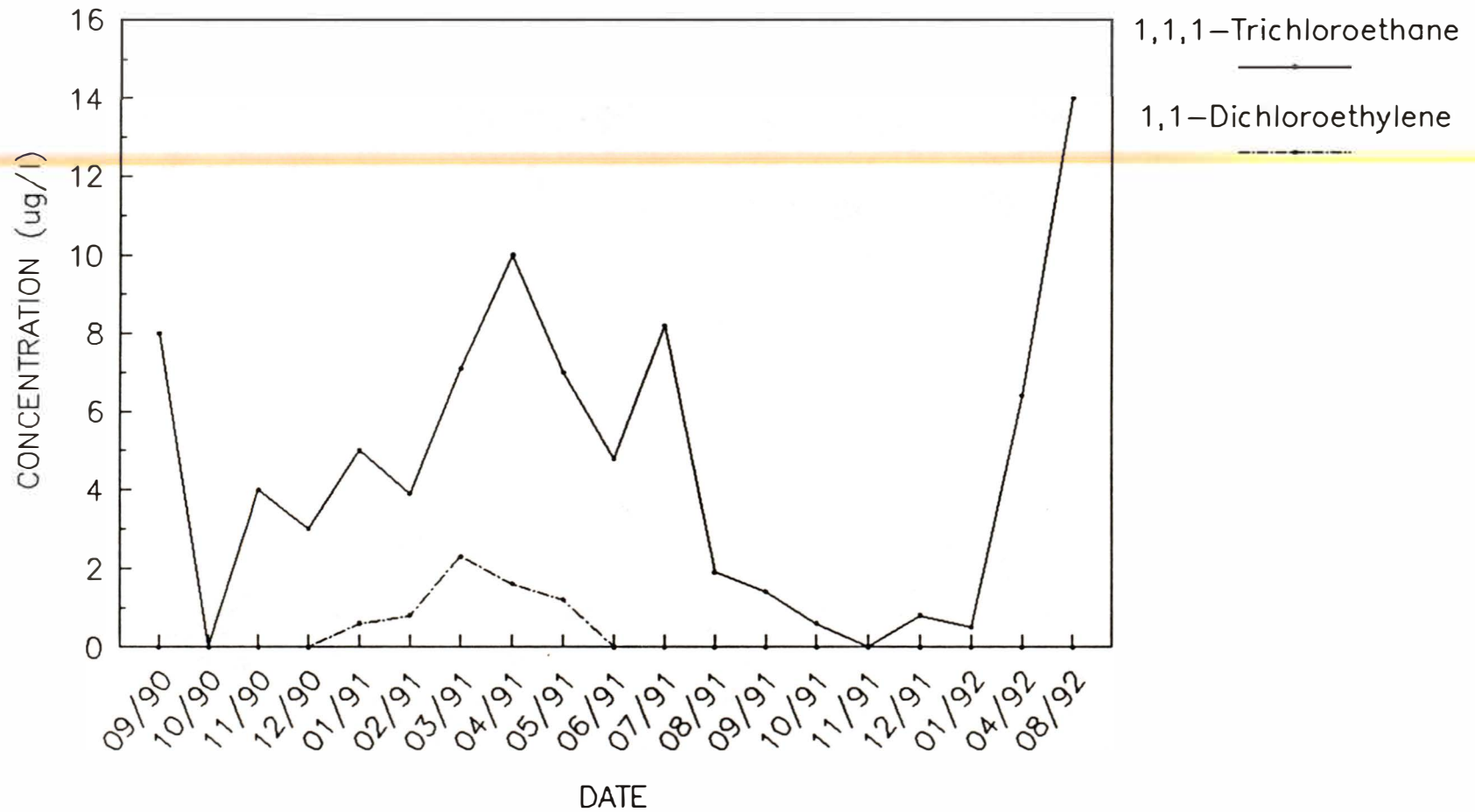
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Updated 10/06/92

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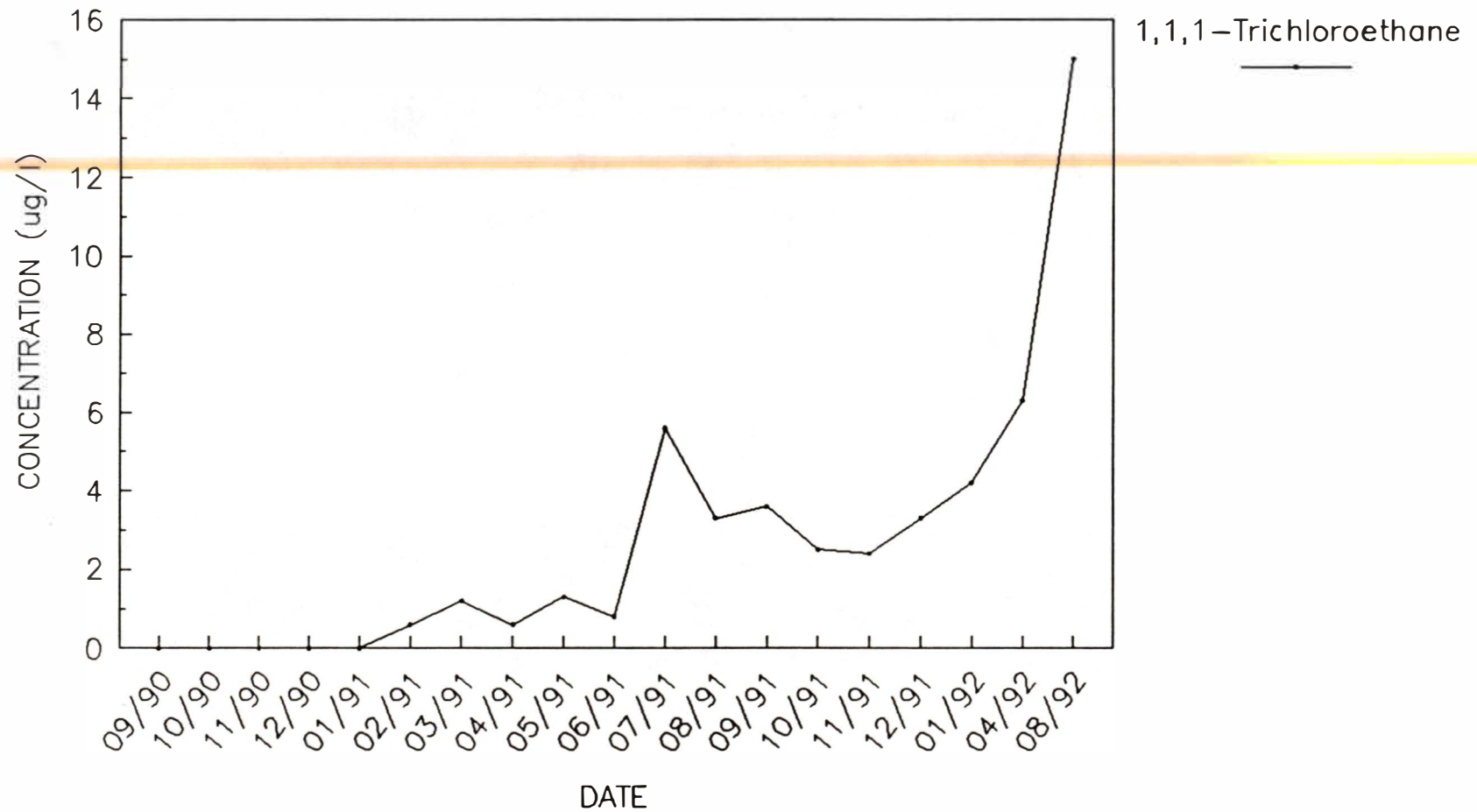
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Updated 10/06/92

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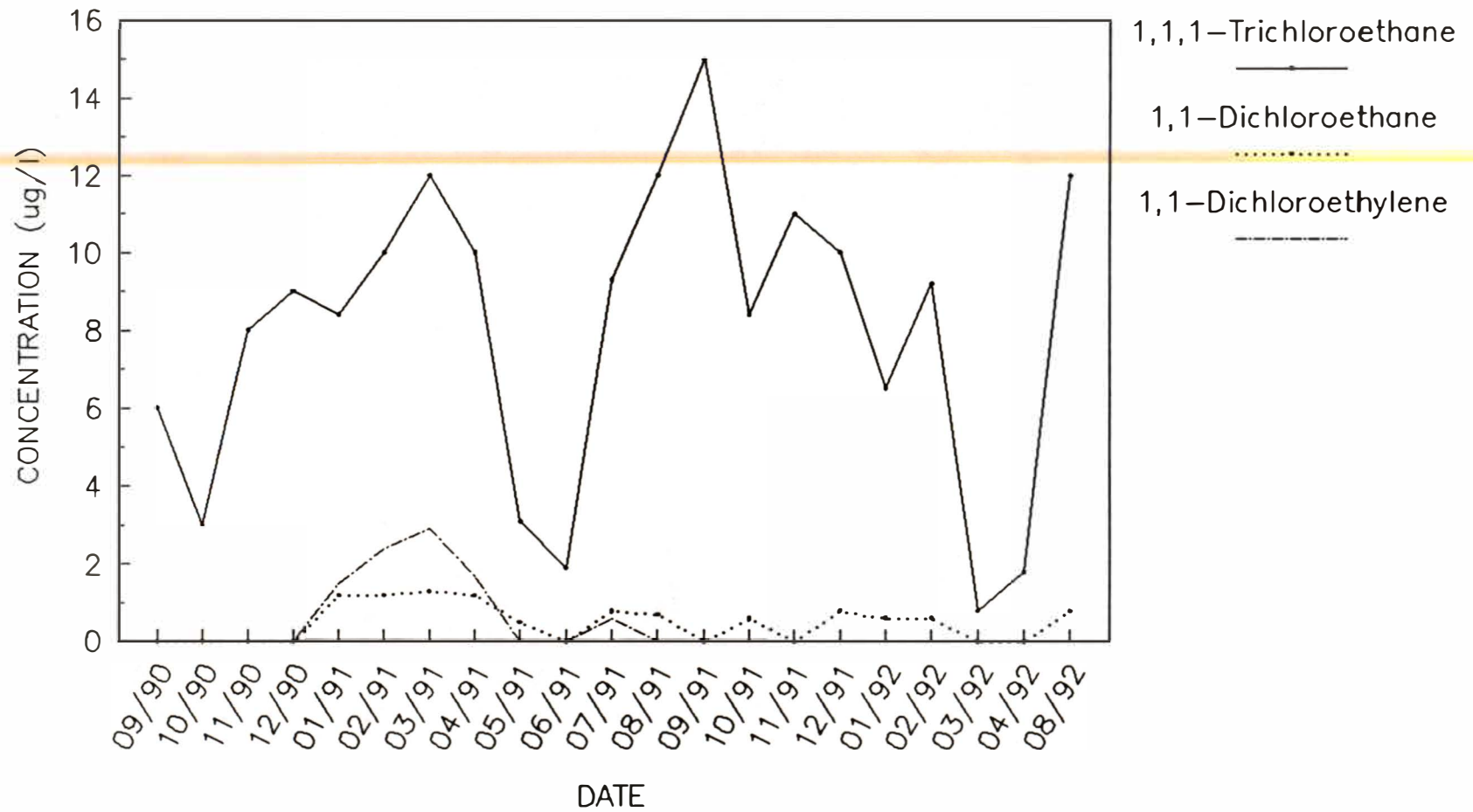
## MW-301



Updated 10/06/92

# MILLER CONTAINER

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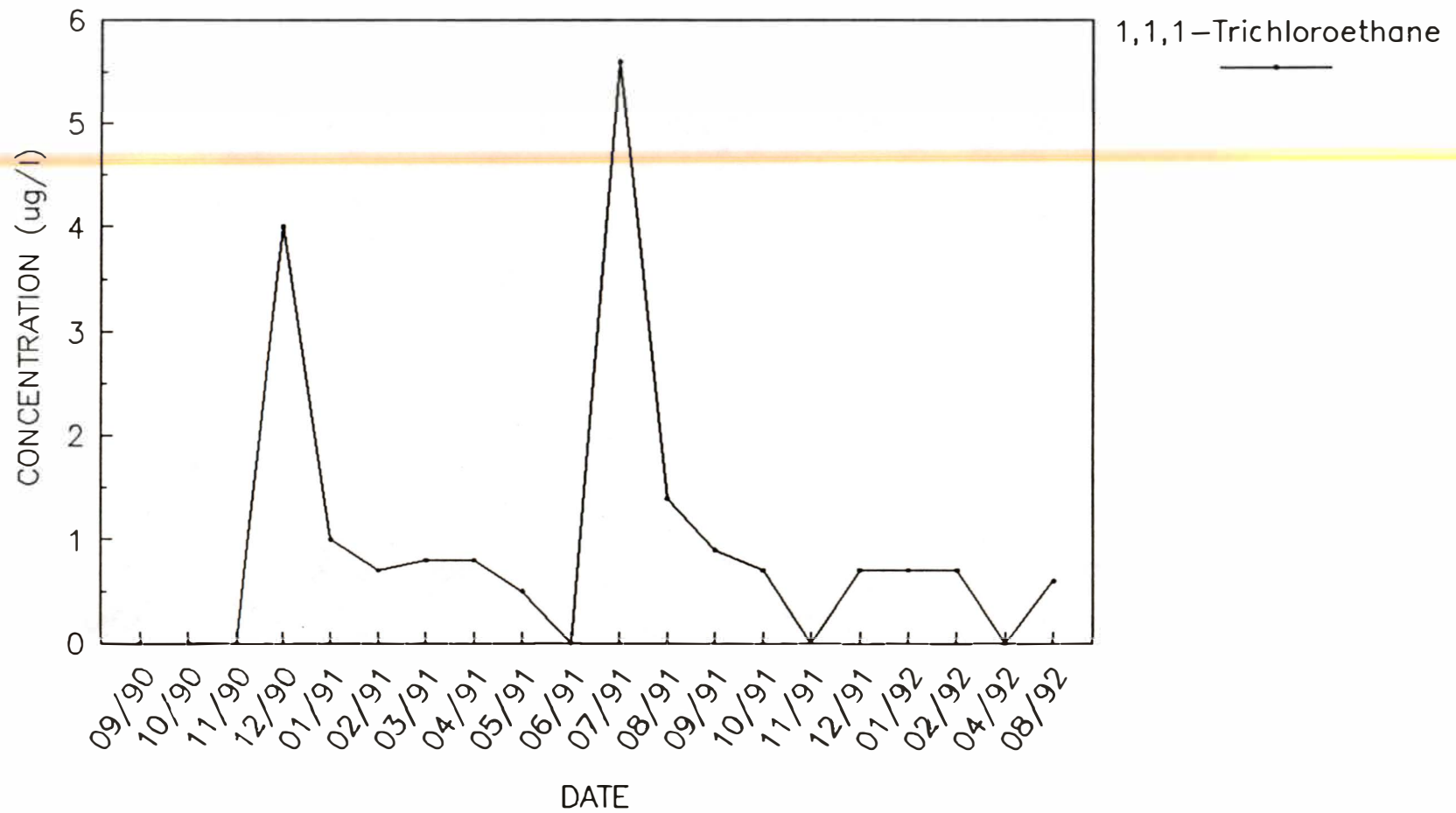


Updated 10/06/92



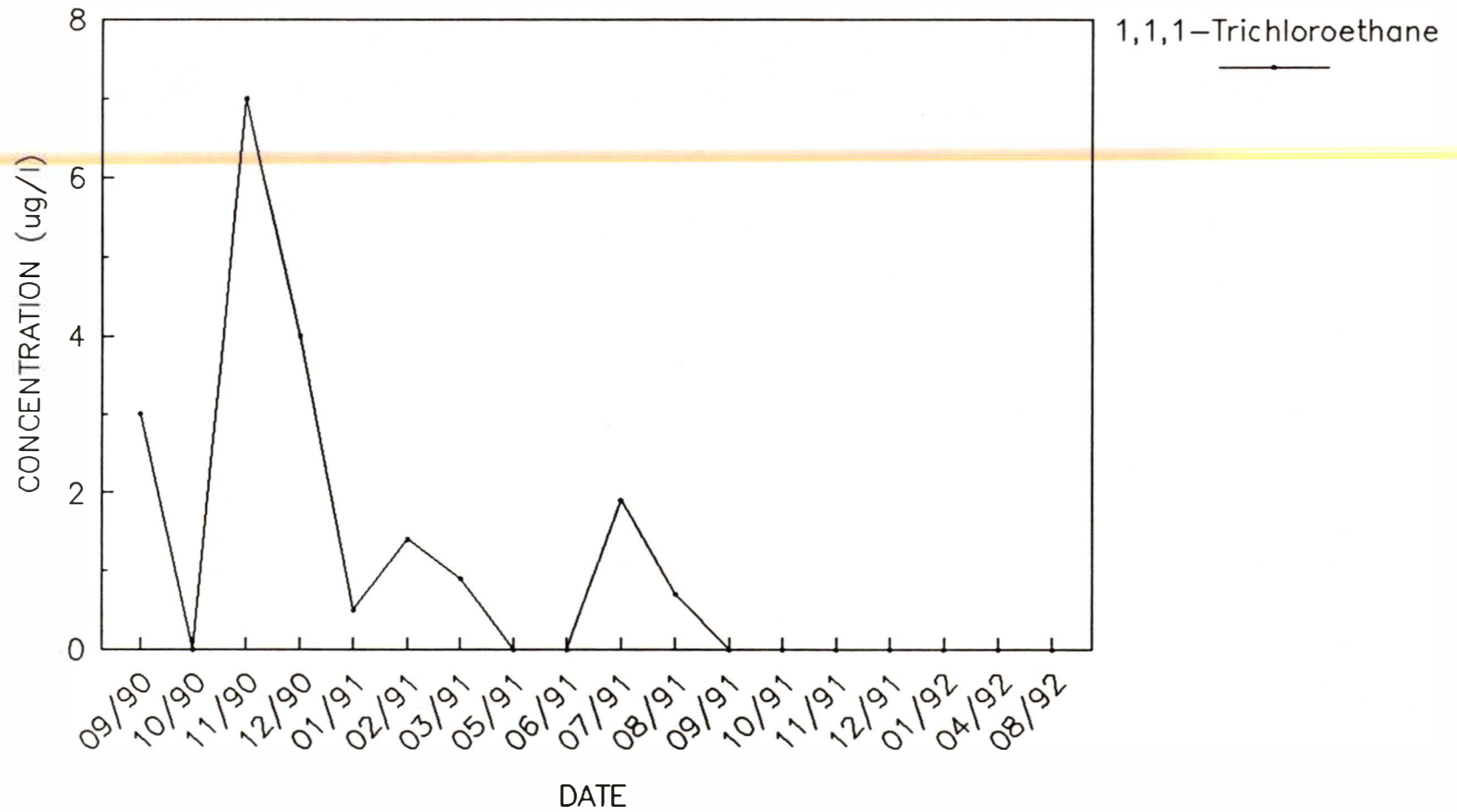
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## MW-311



Updated 10/06/92

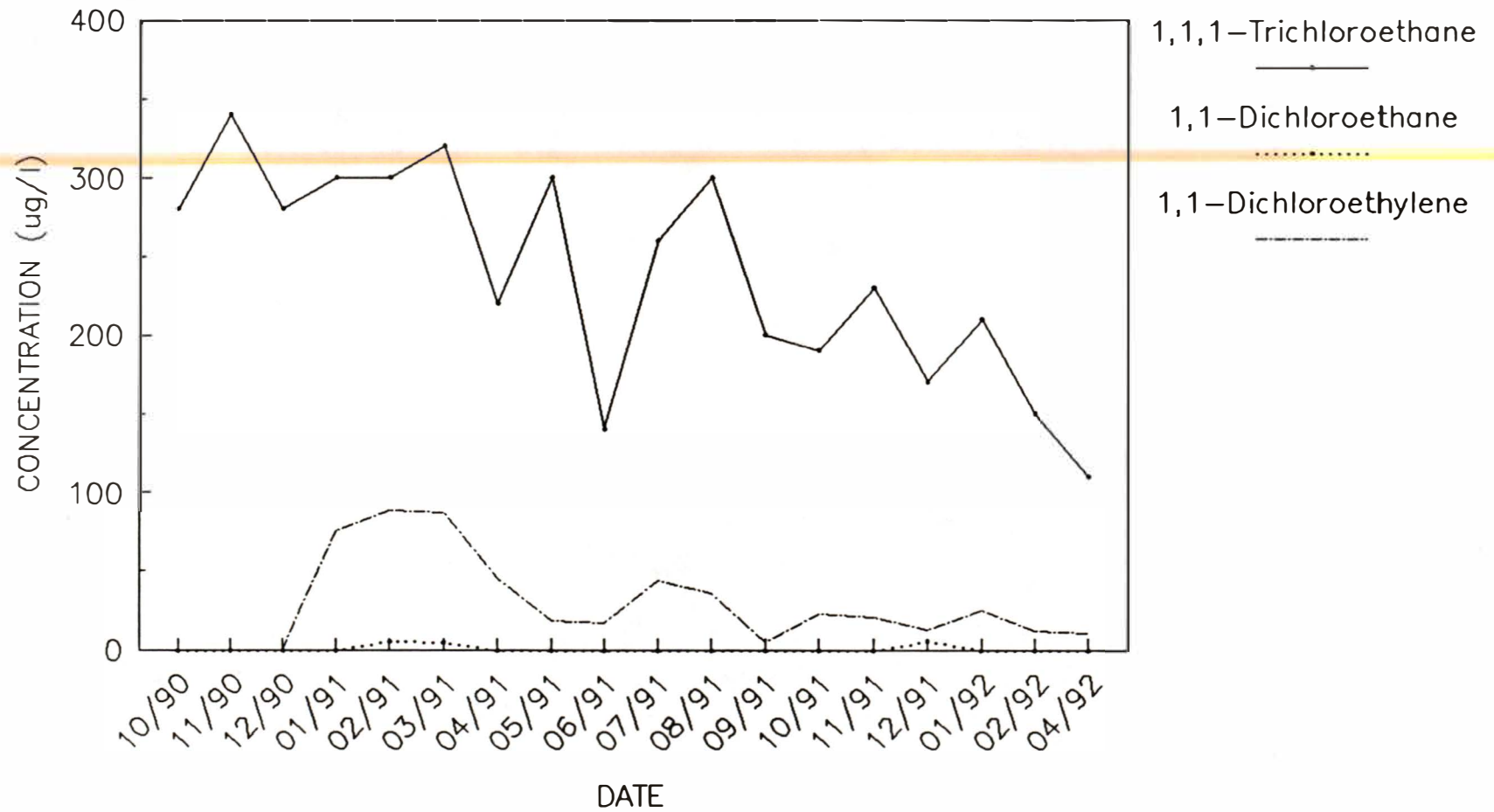
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Updated 10/06/92

# MILLER CONTAINER

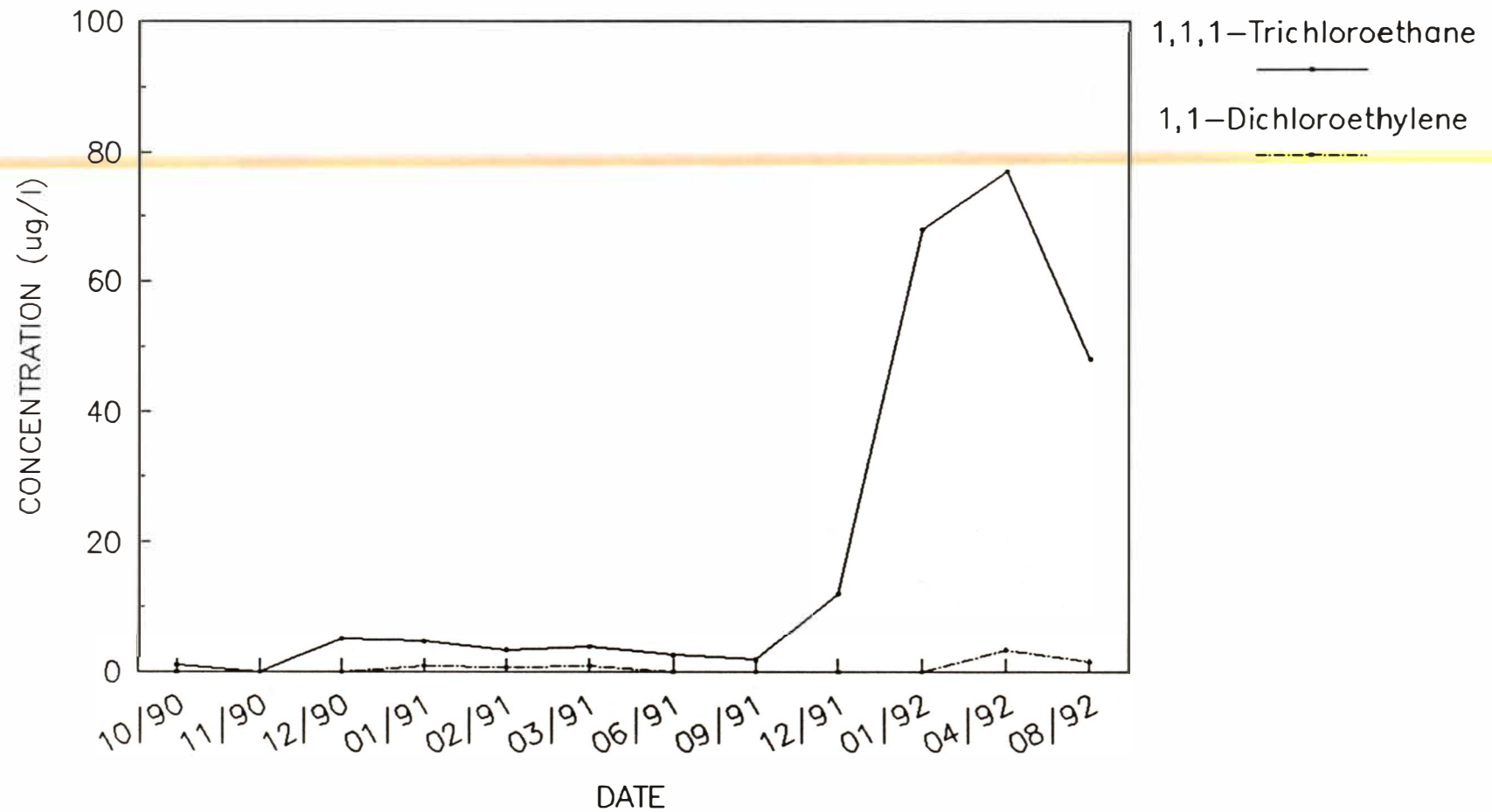
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Updated 05/14/92

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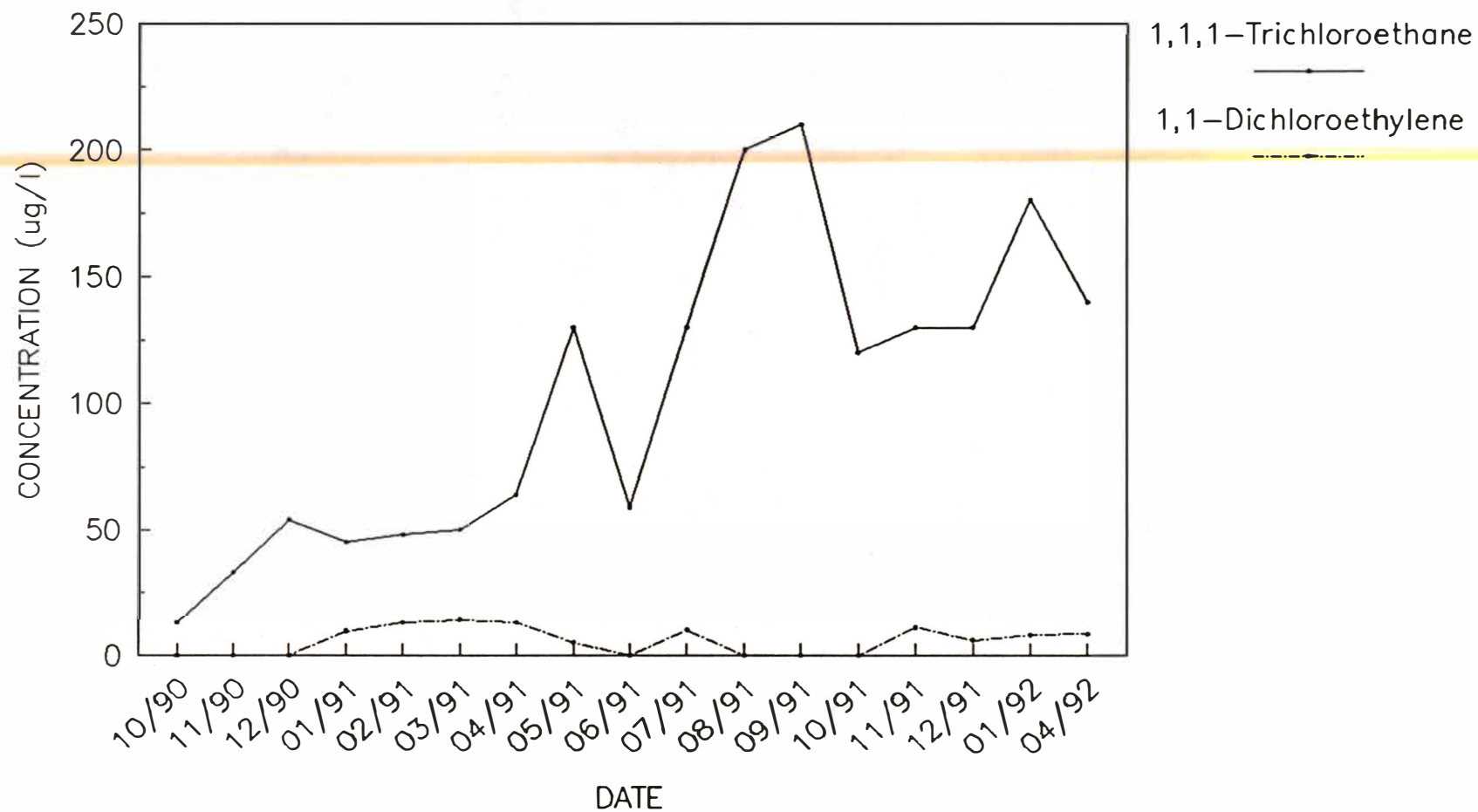
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Updated 10/06/92

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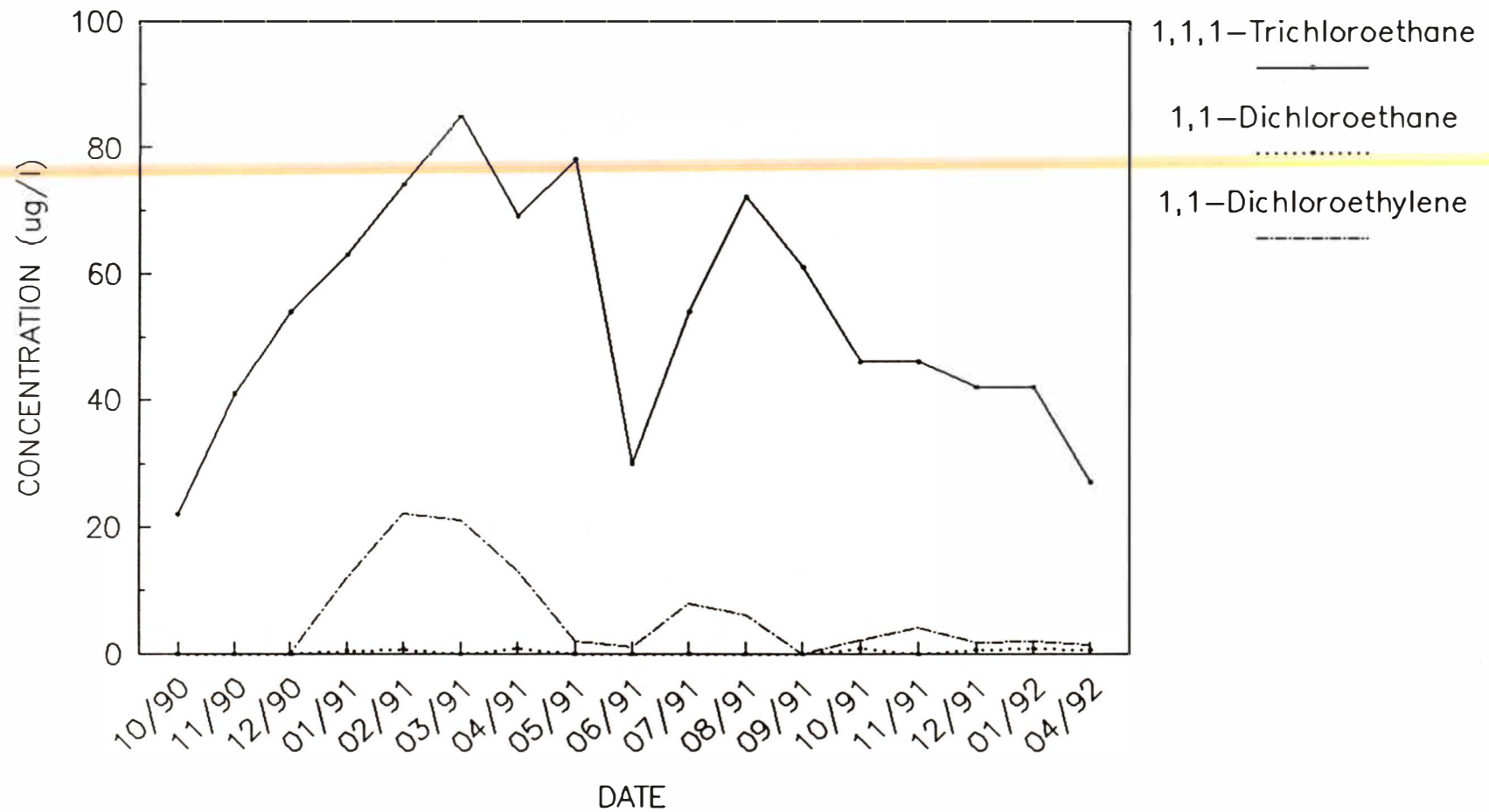
## MW-34D



Updated 05/14/92

# MILLER CONTAINER

## MW-35D

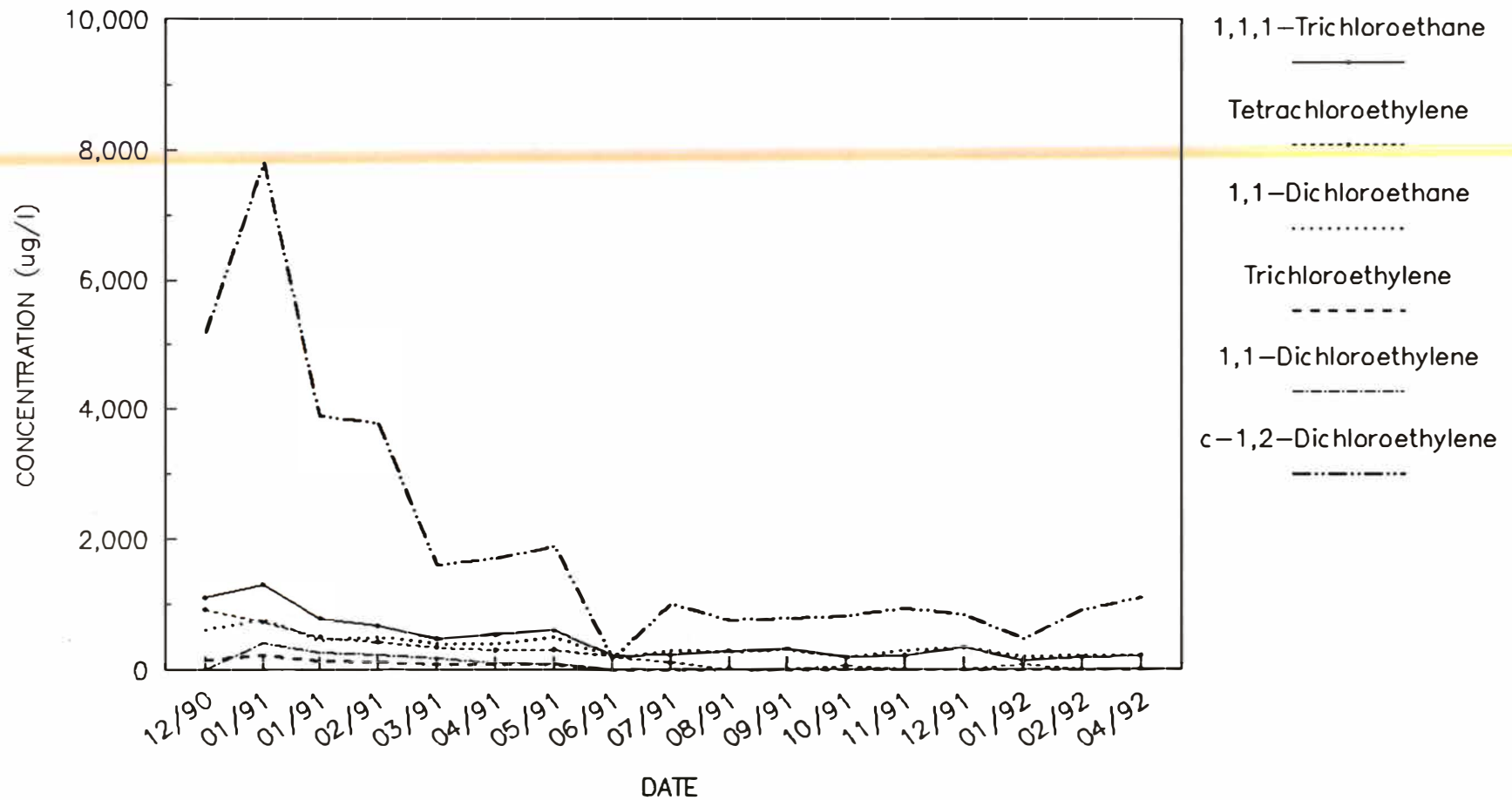


Updated 05/14/92



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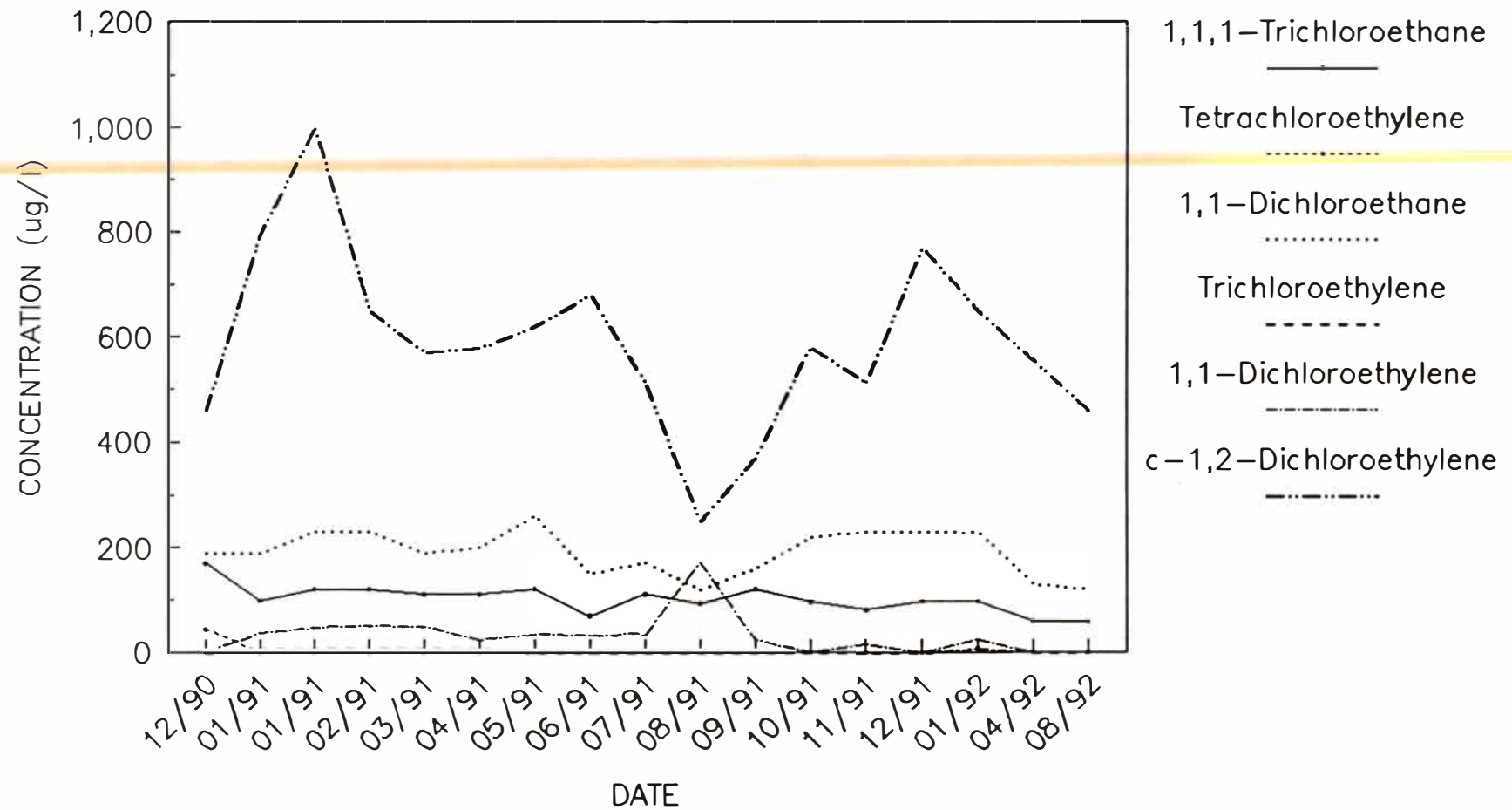
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Updated 05/14/92

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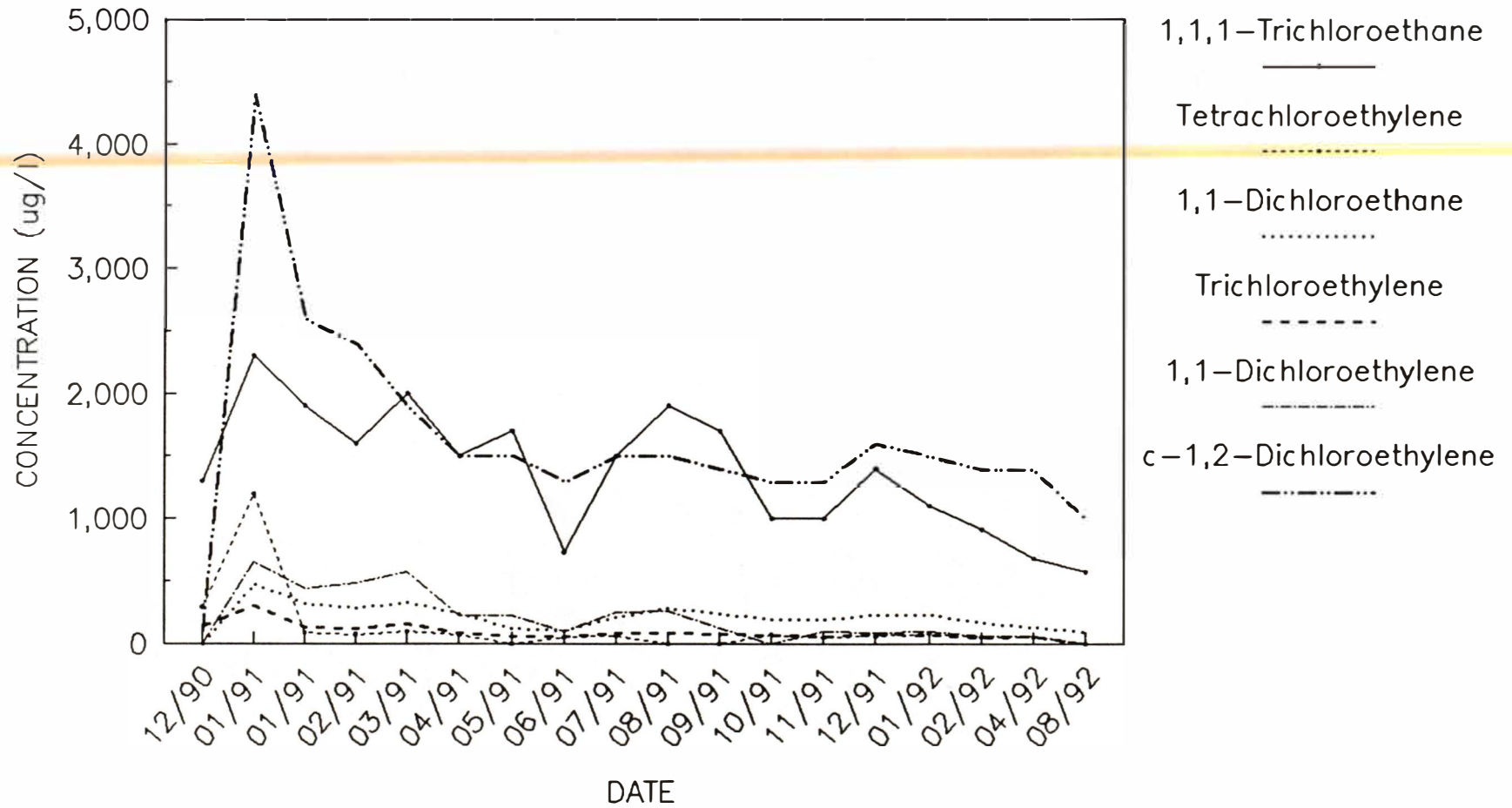
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Updated 10/06/92

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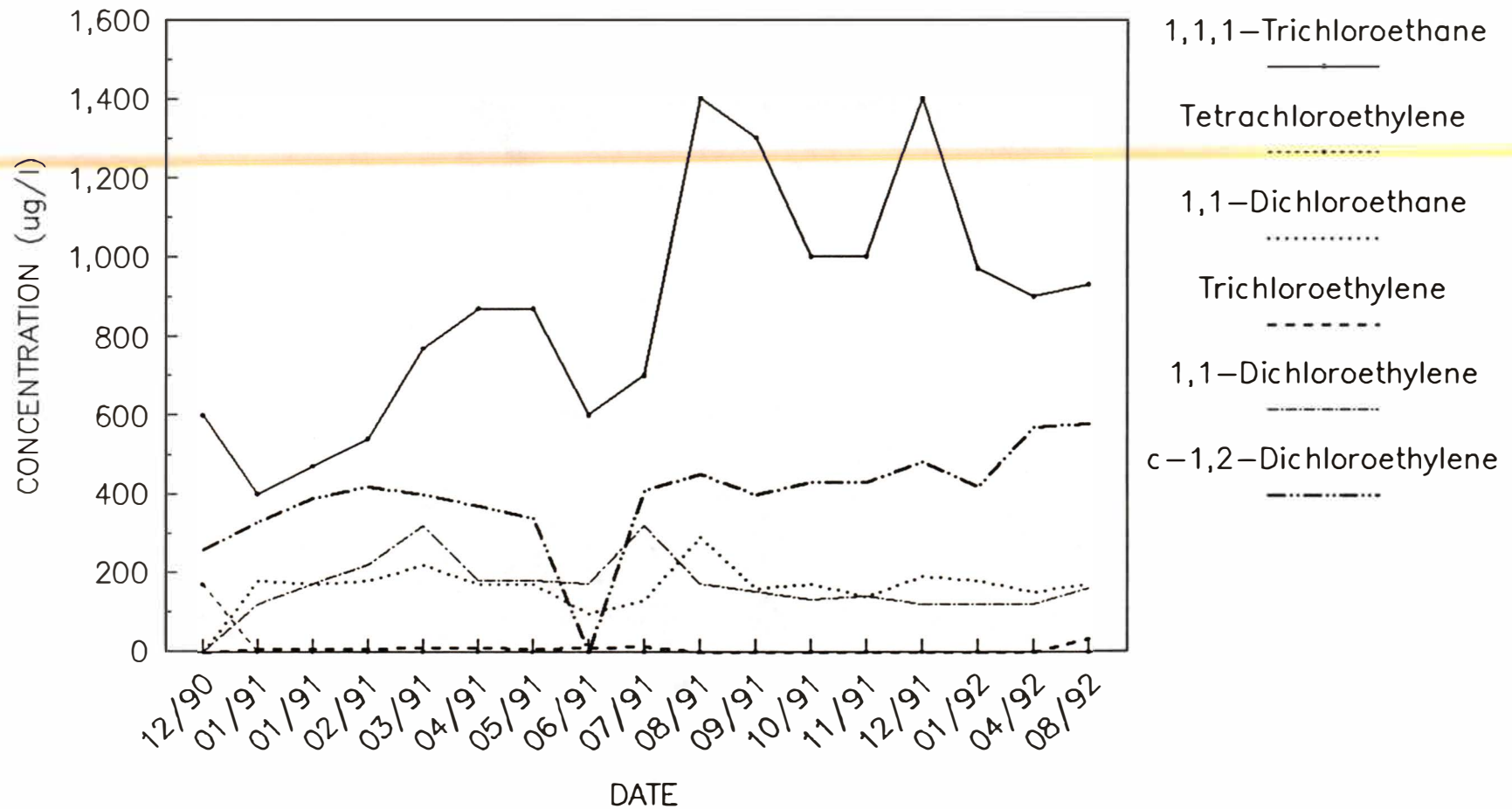
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Updated 10/06/92

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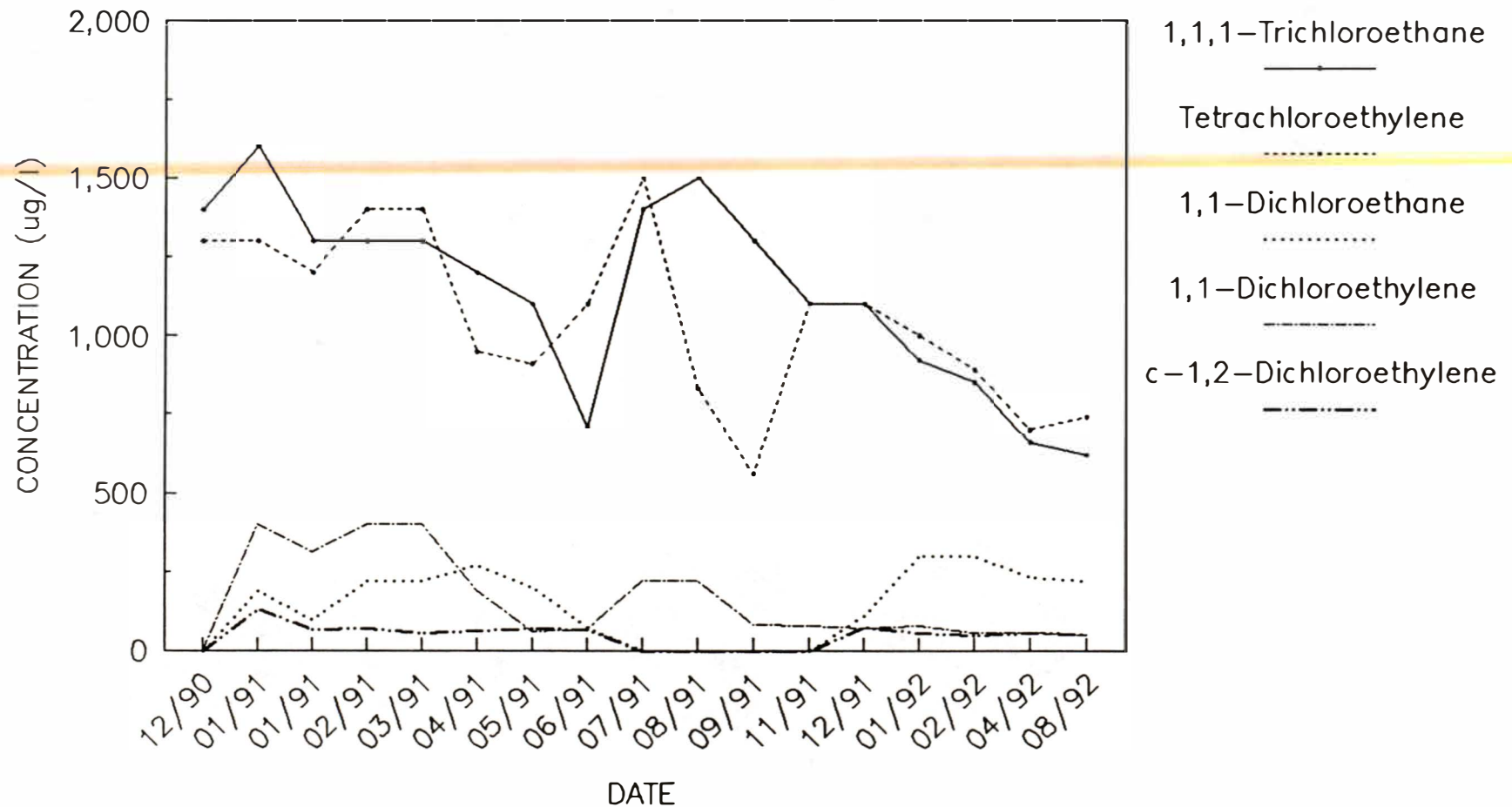
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Updated 10/06/92

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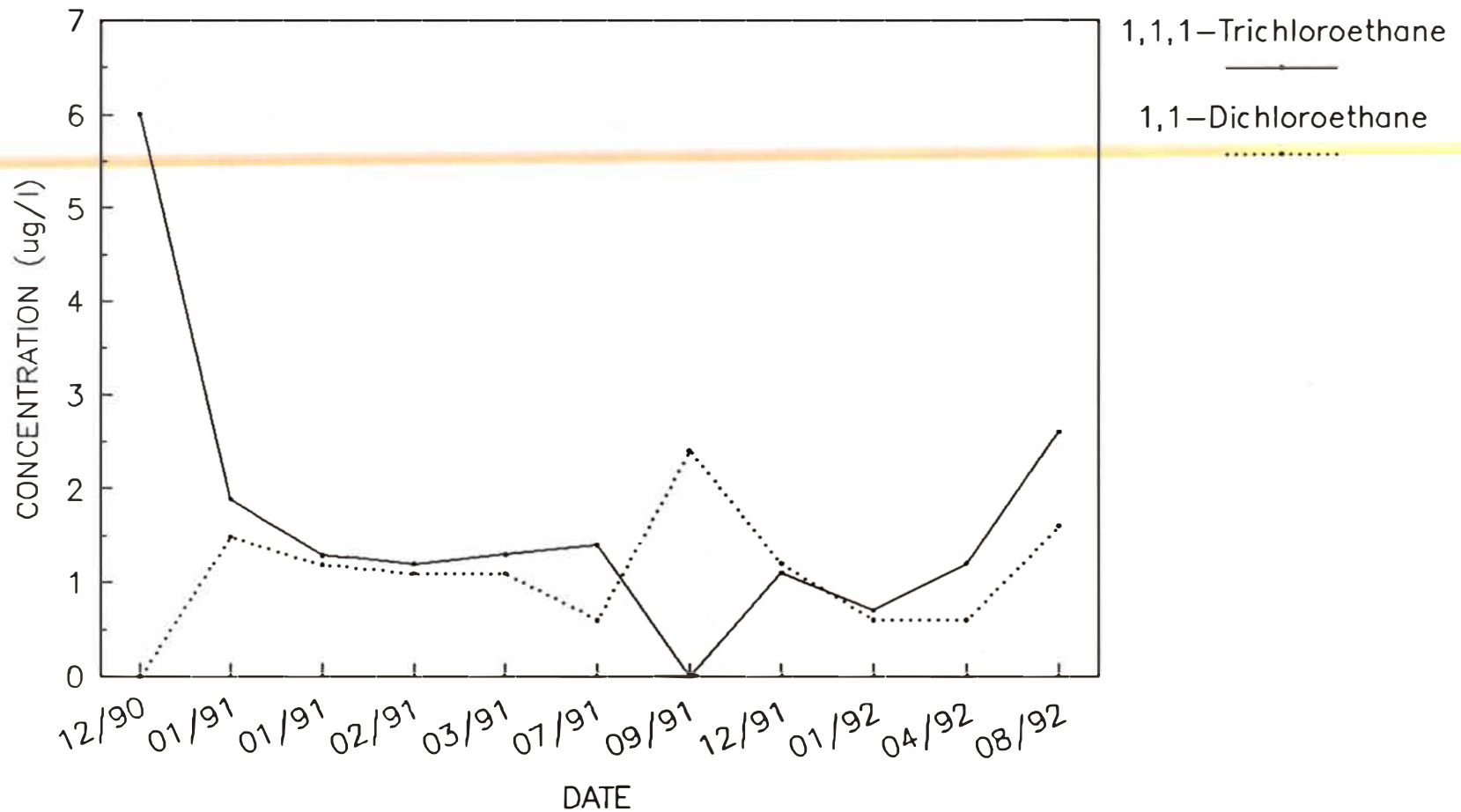
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Updated 10/06/92

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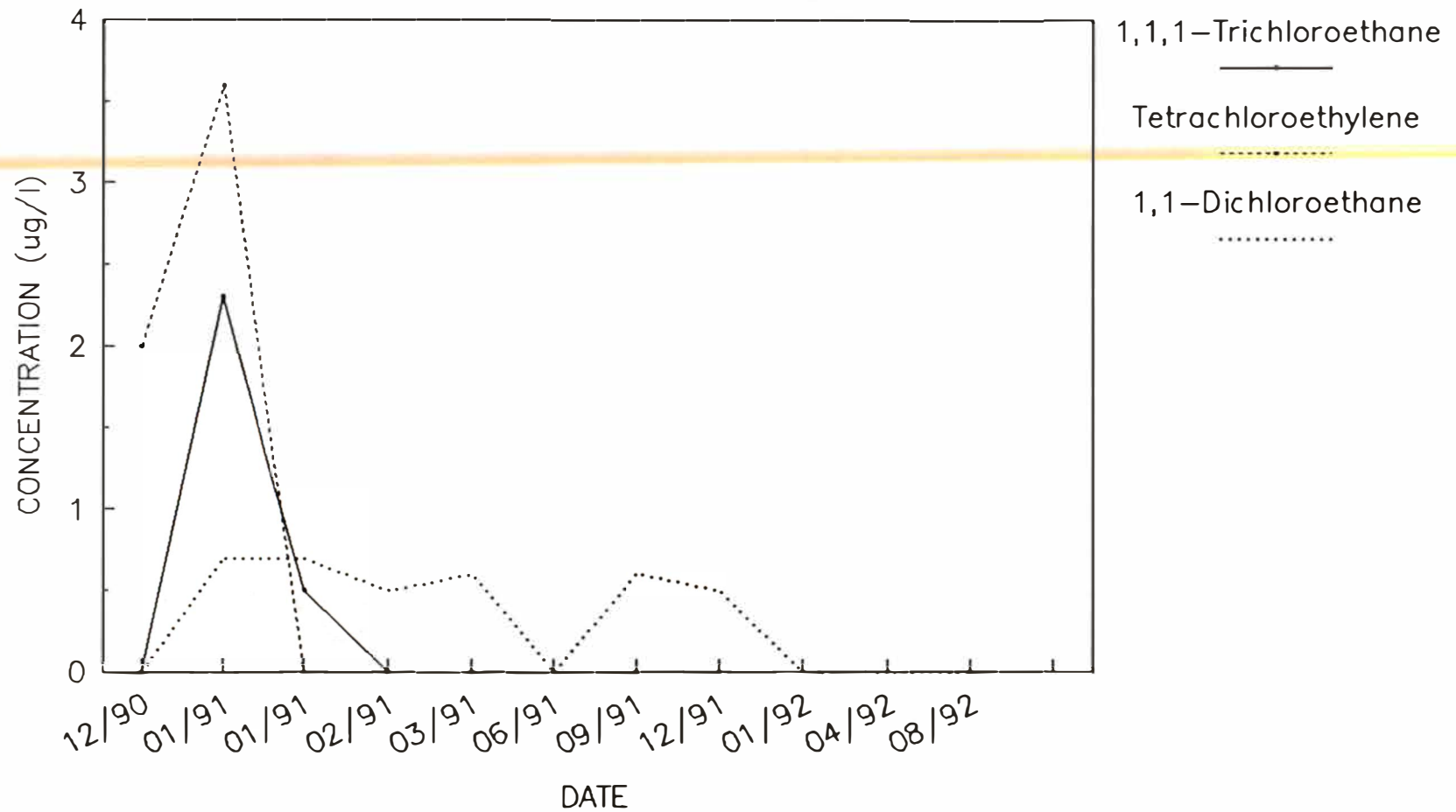


Updated 10/06/92



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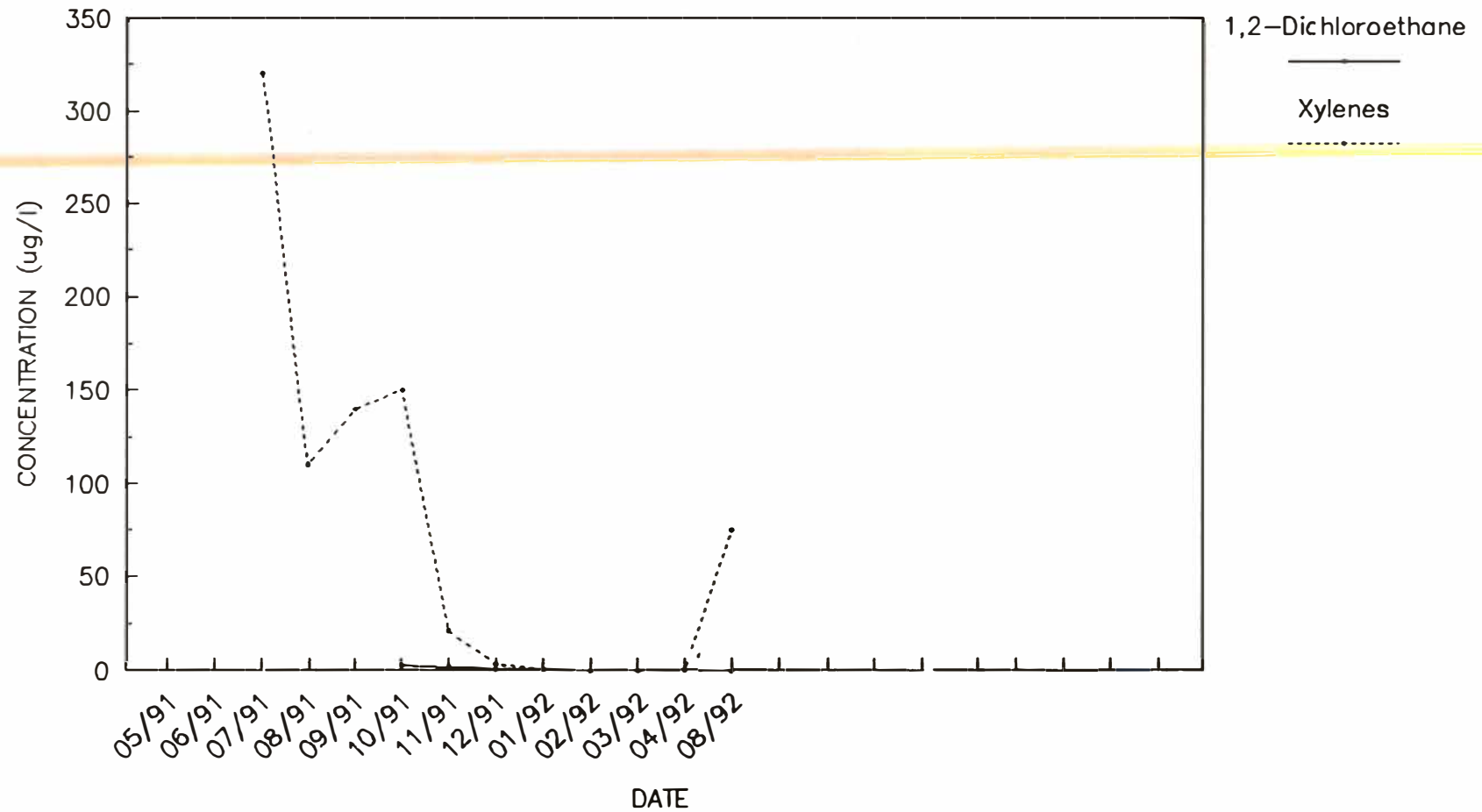
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Updated 10/06/92

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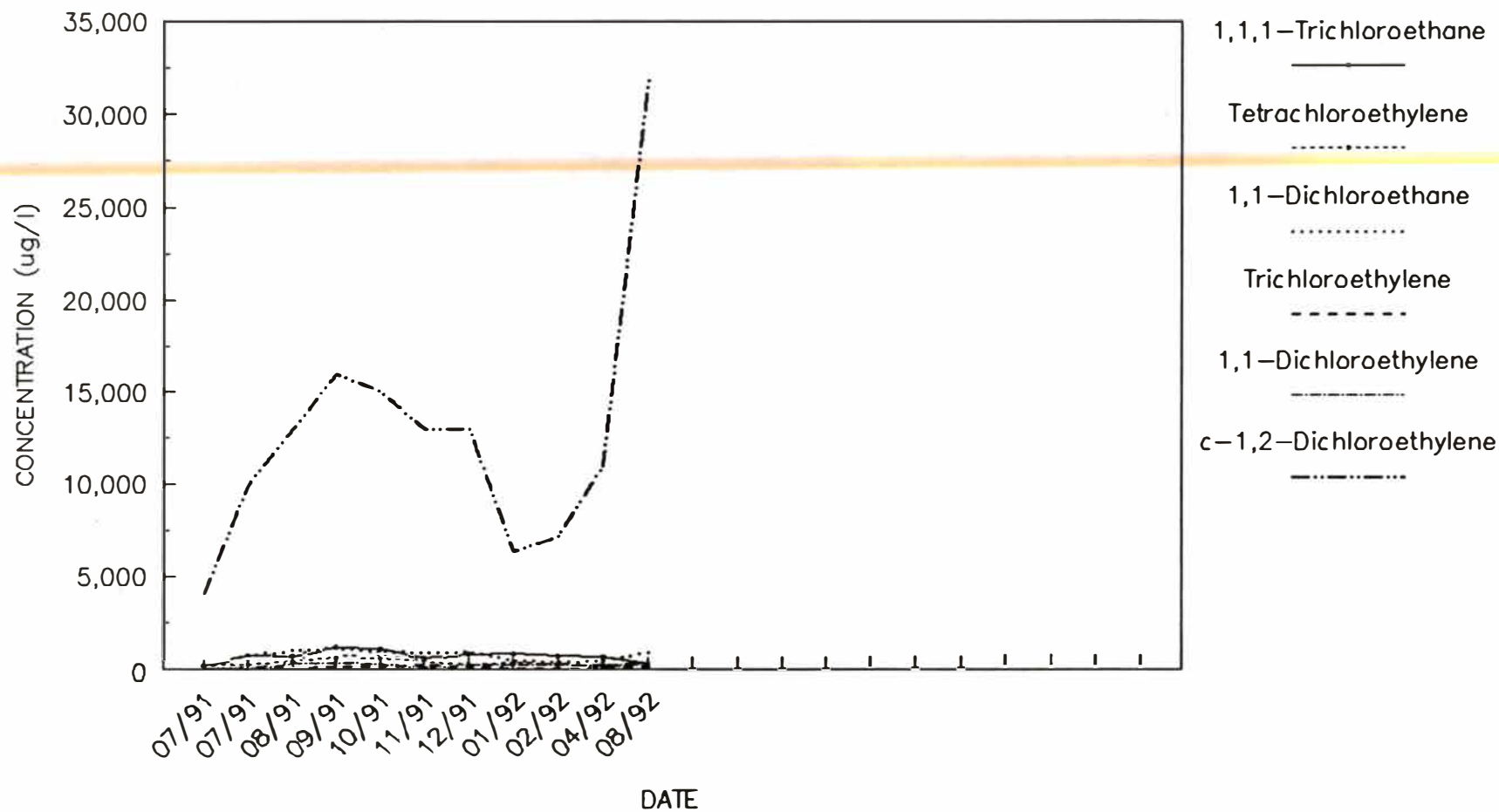
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Updated 10/06/92

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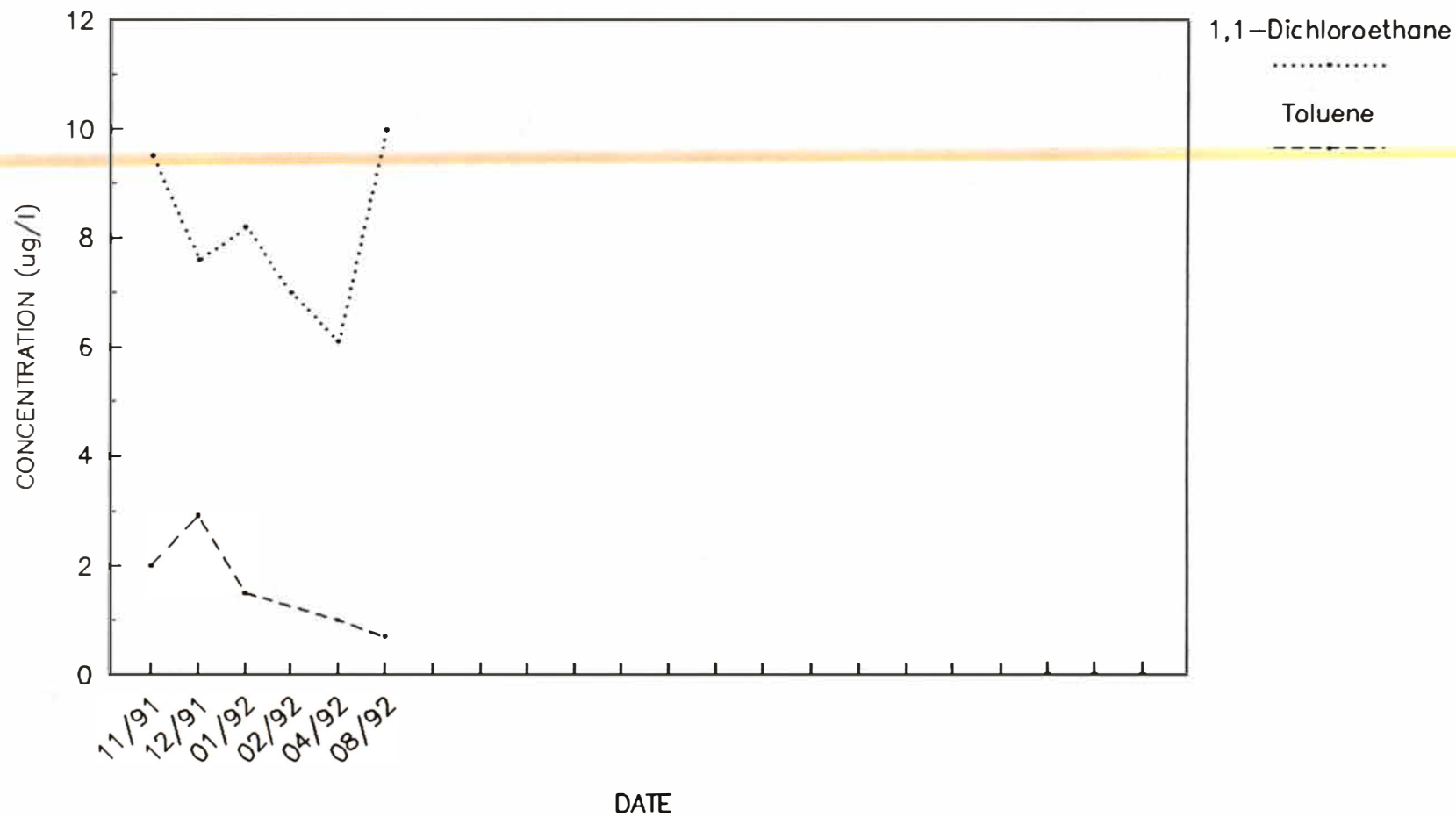
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Updated 10/06/92

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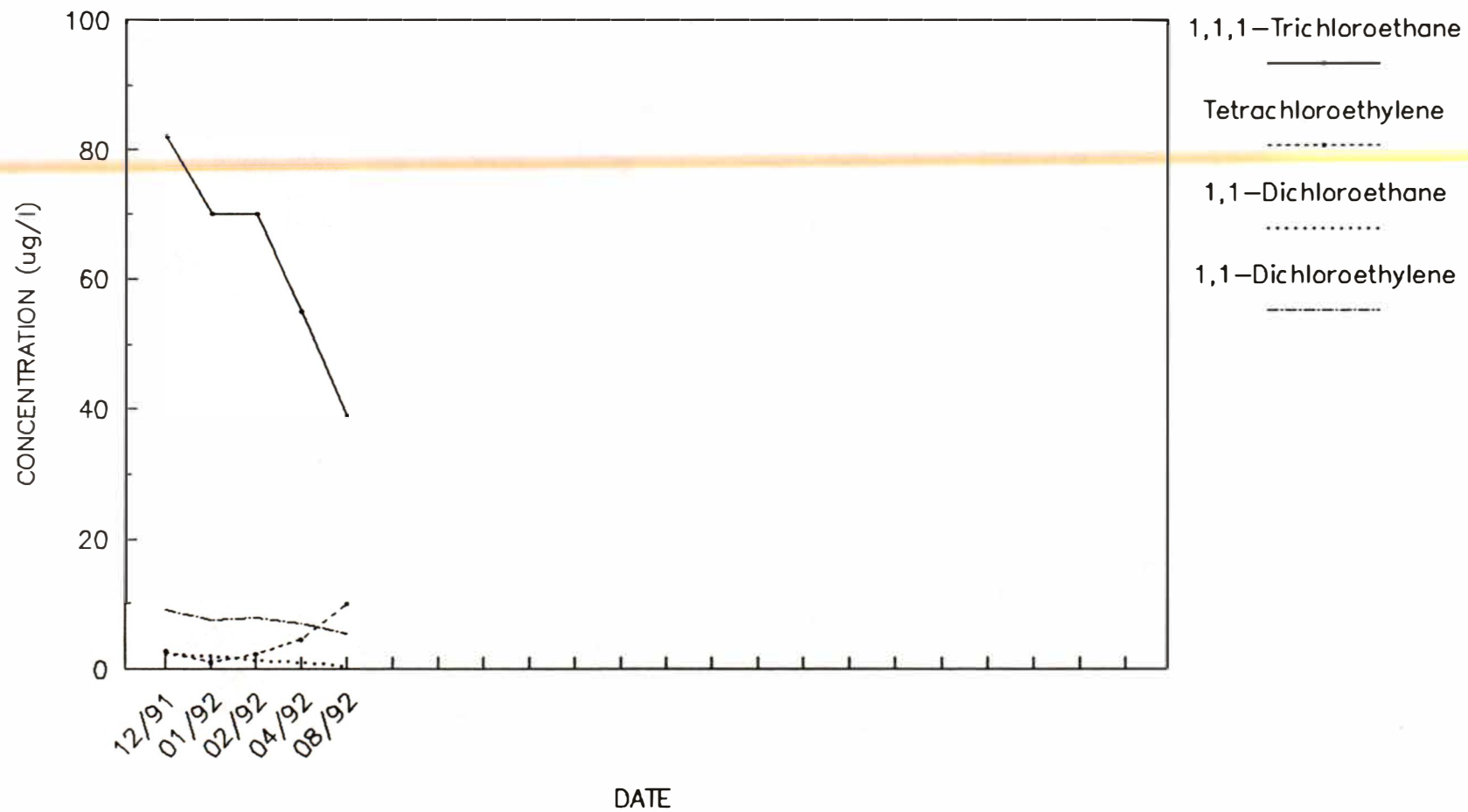
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Updated 10/06/92

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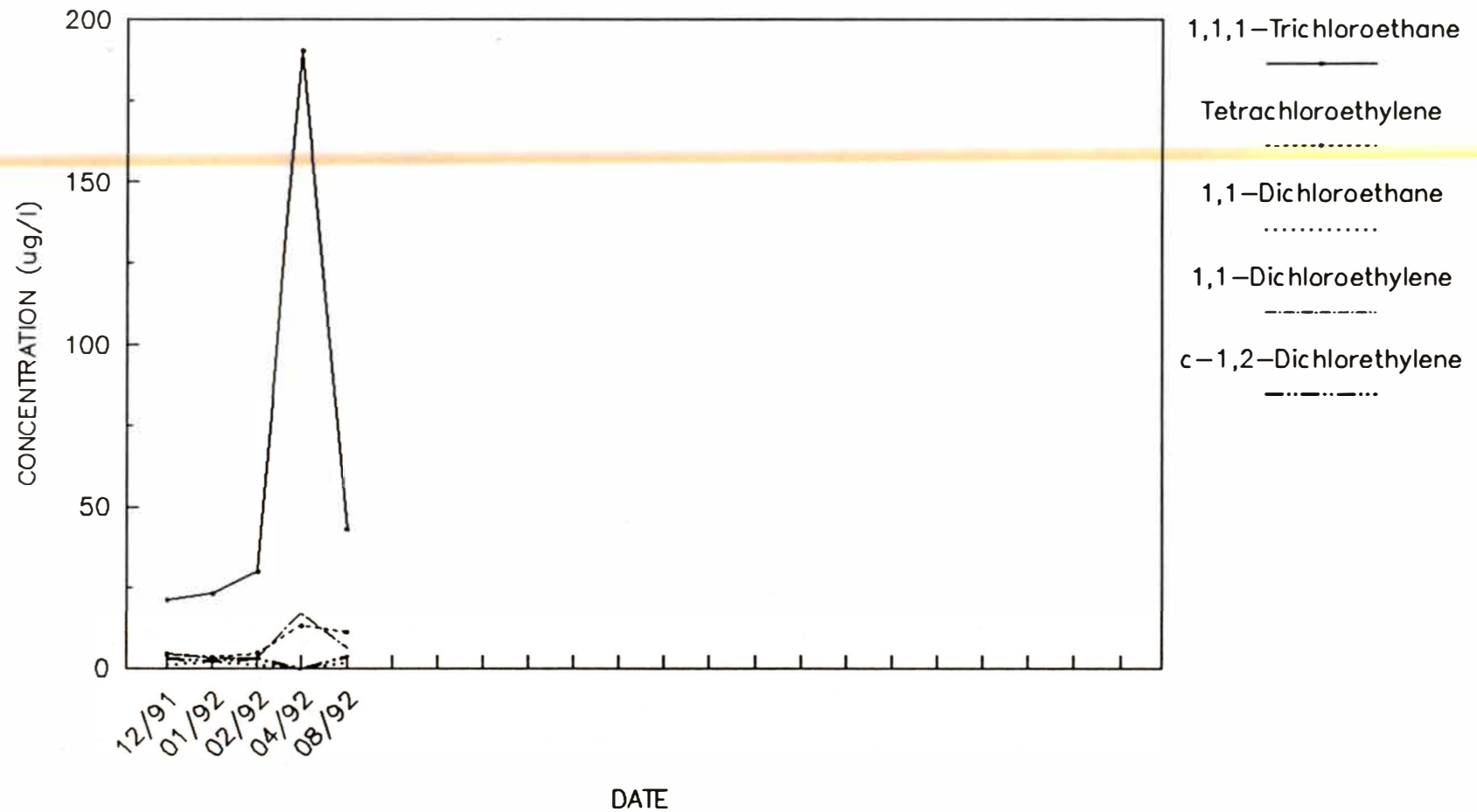
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Updated 10/06/92

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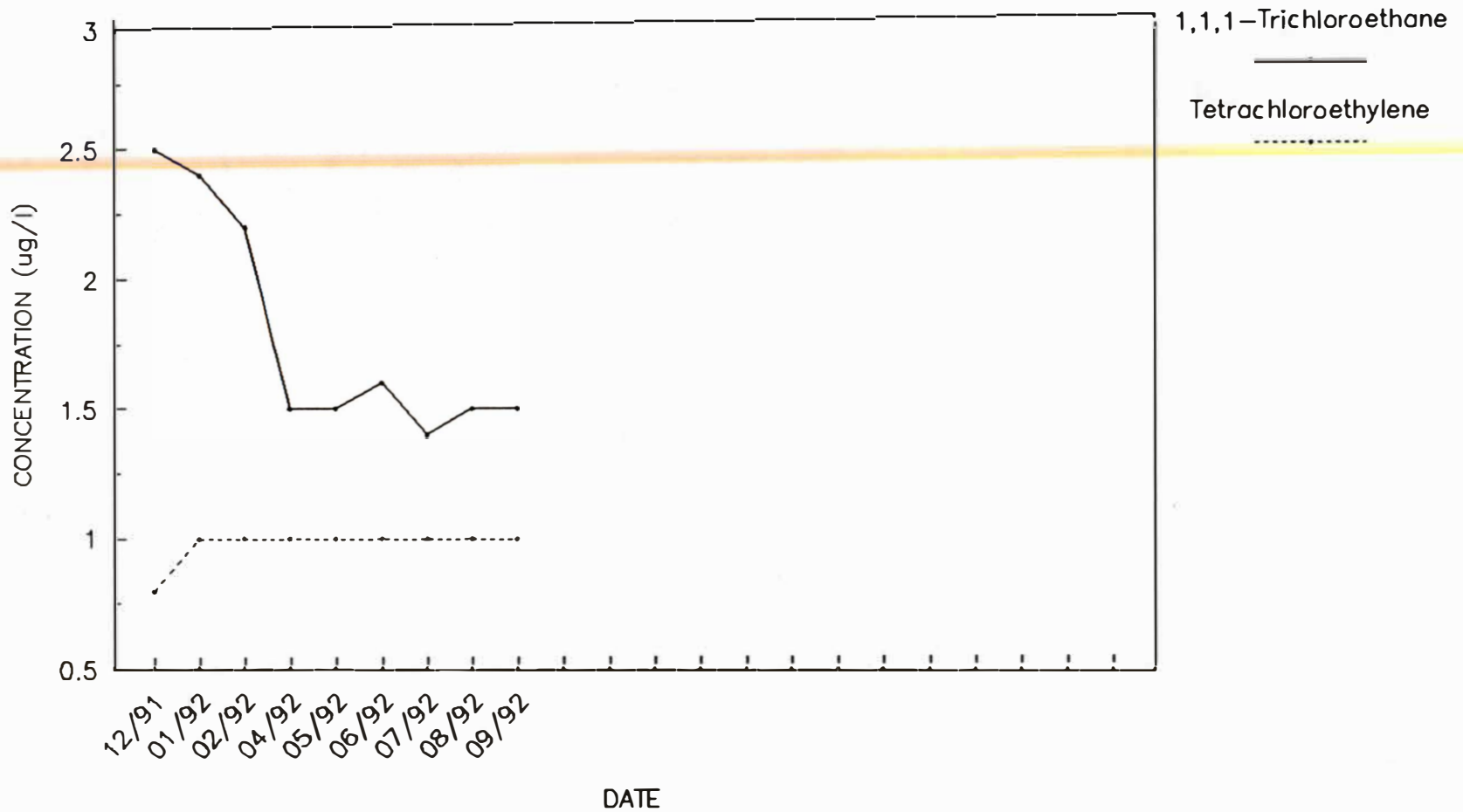
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Updated 10/06/92



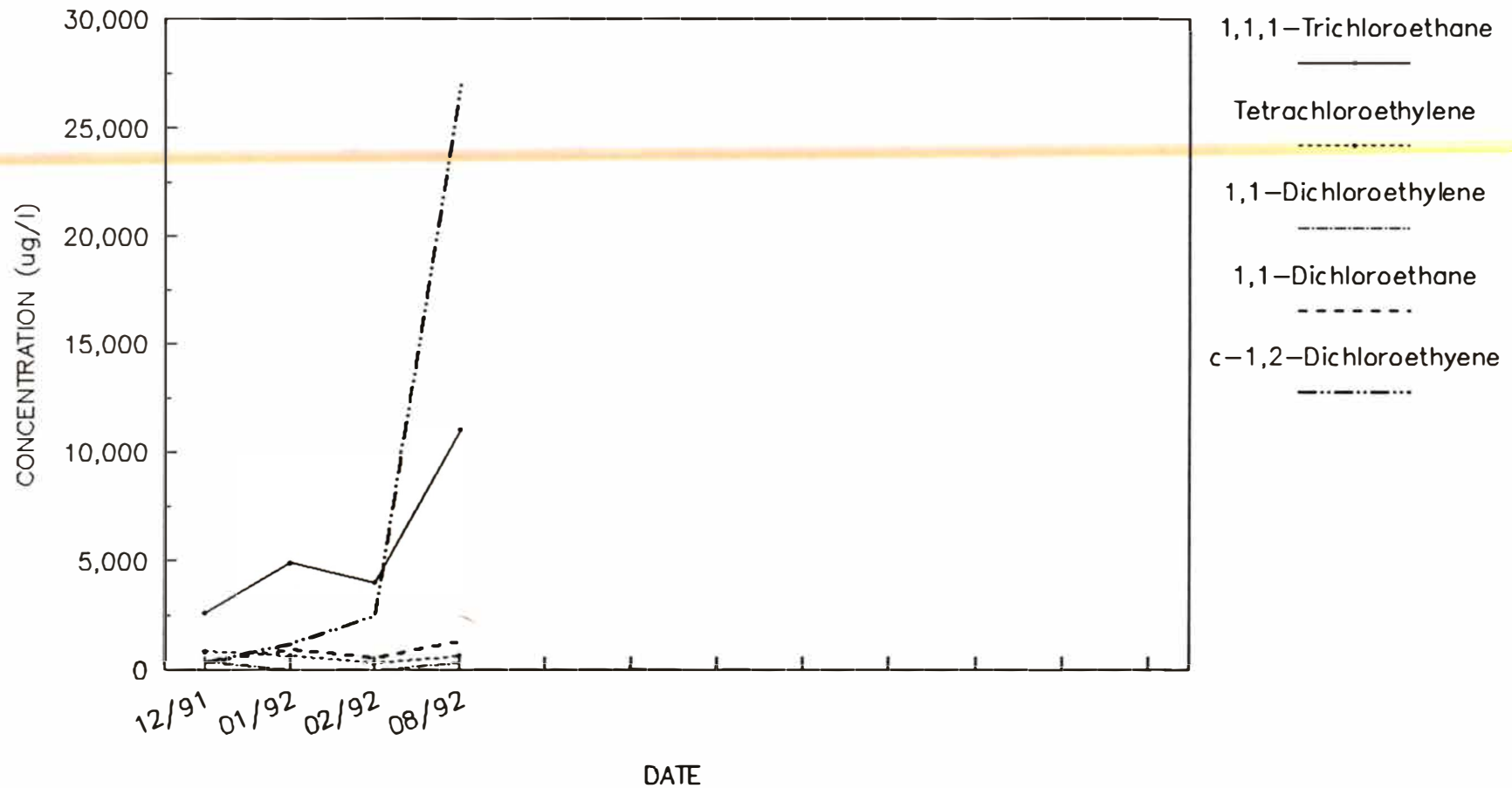
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Updated 10/06/92

# MILLER CONTAINER

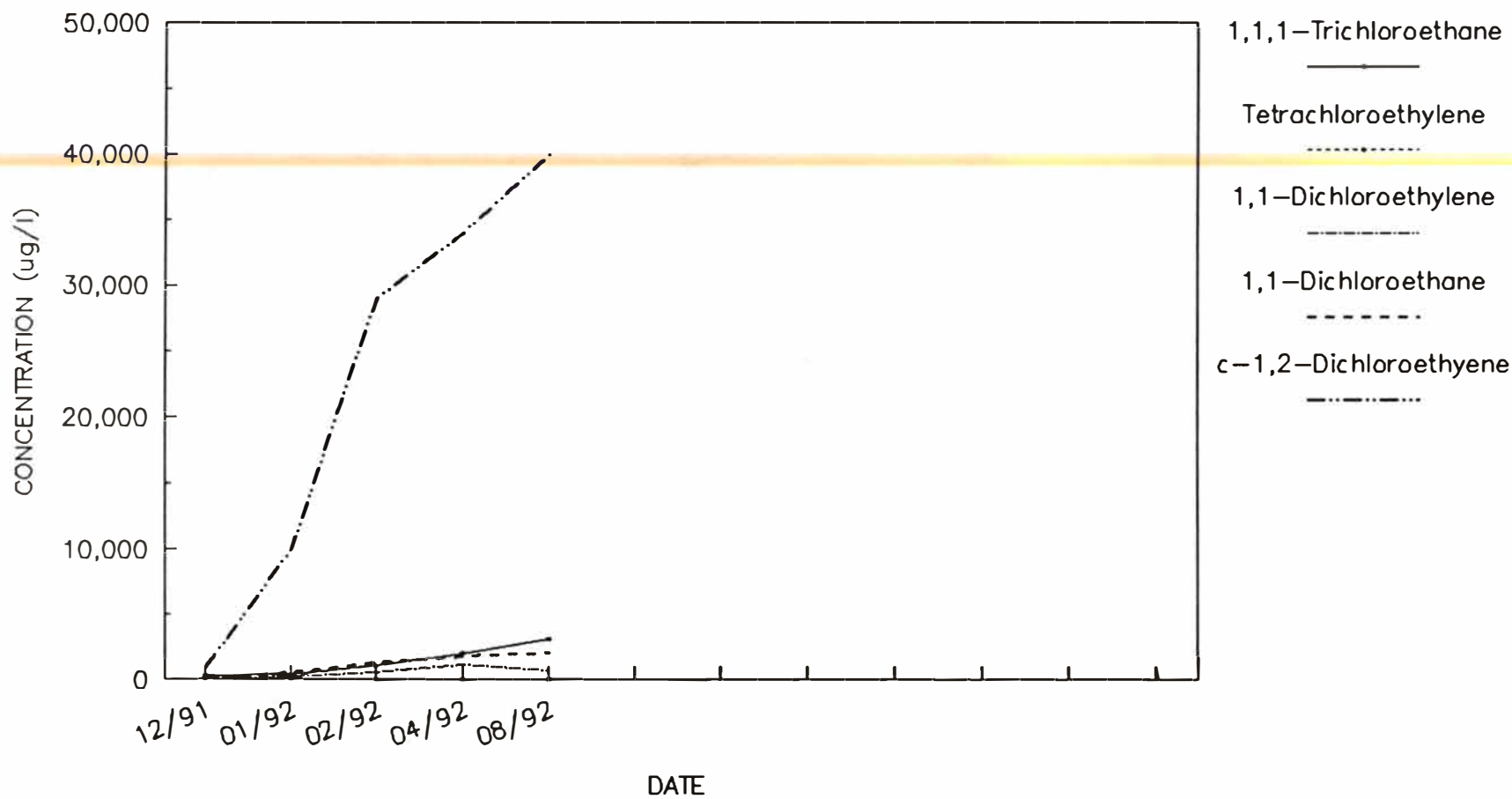
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Updated: 10/06/92

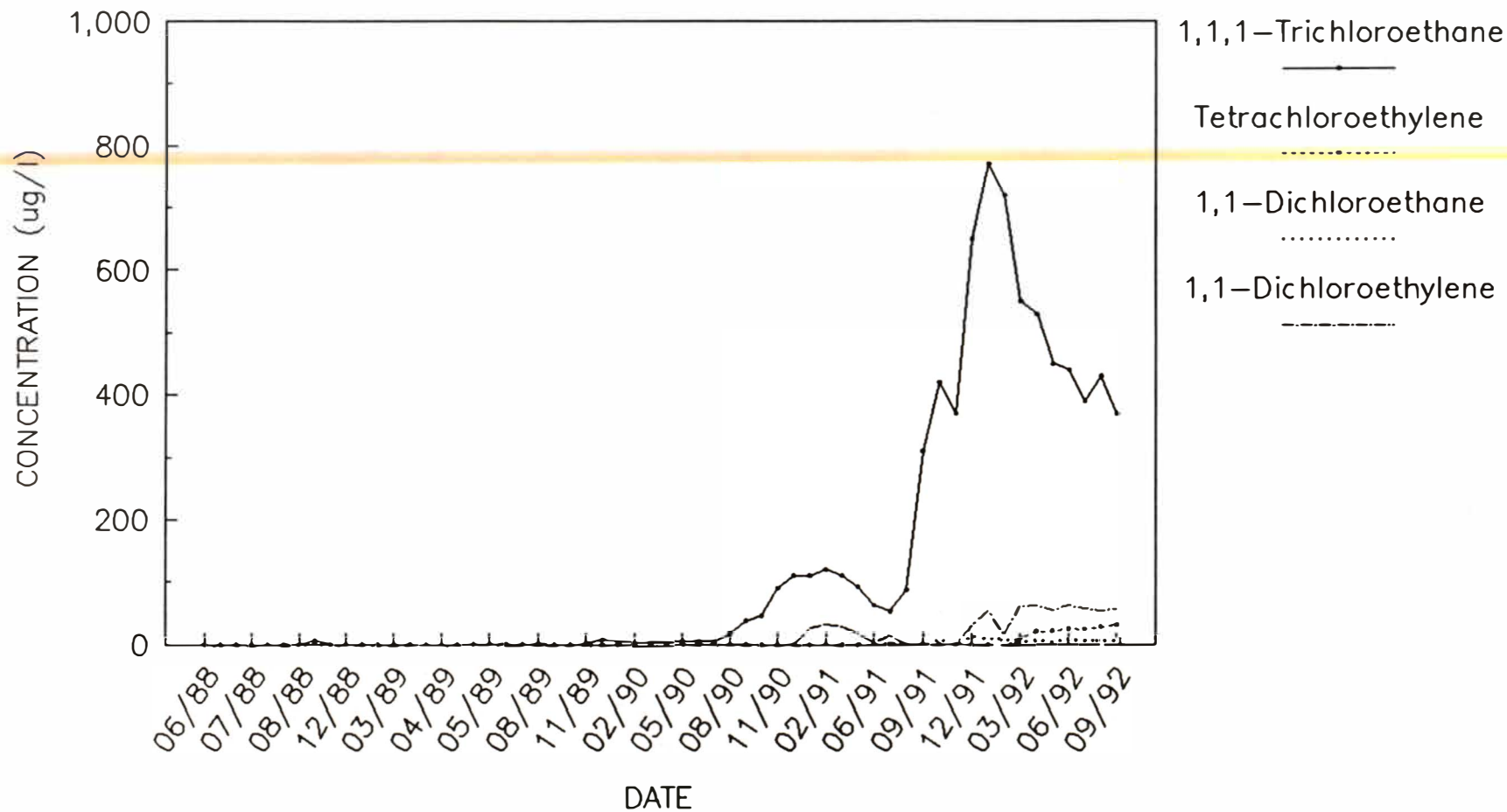
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## MW-59S



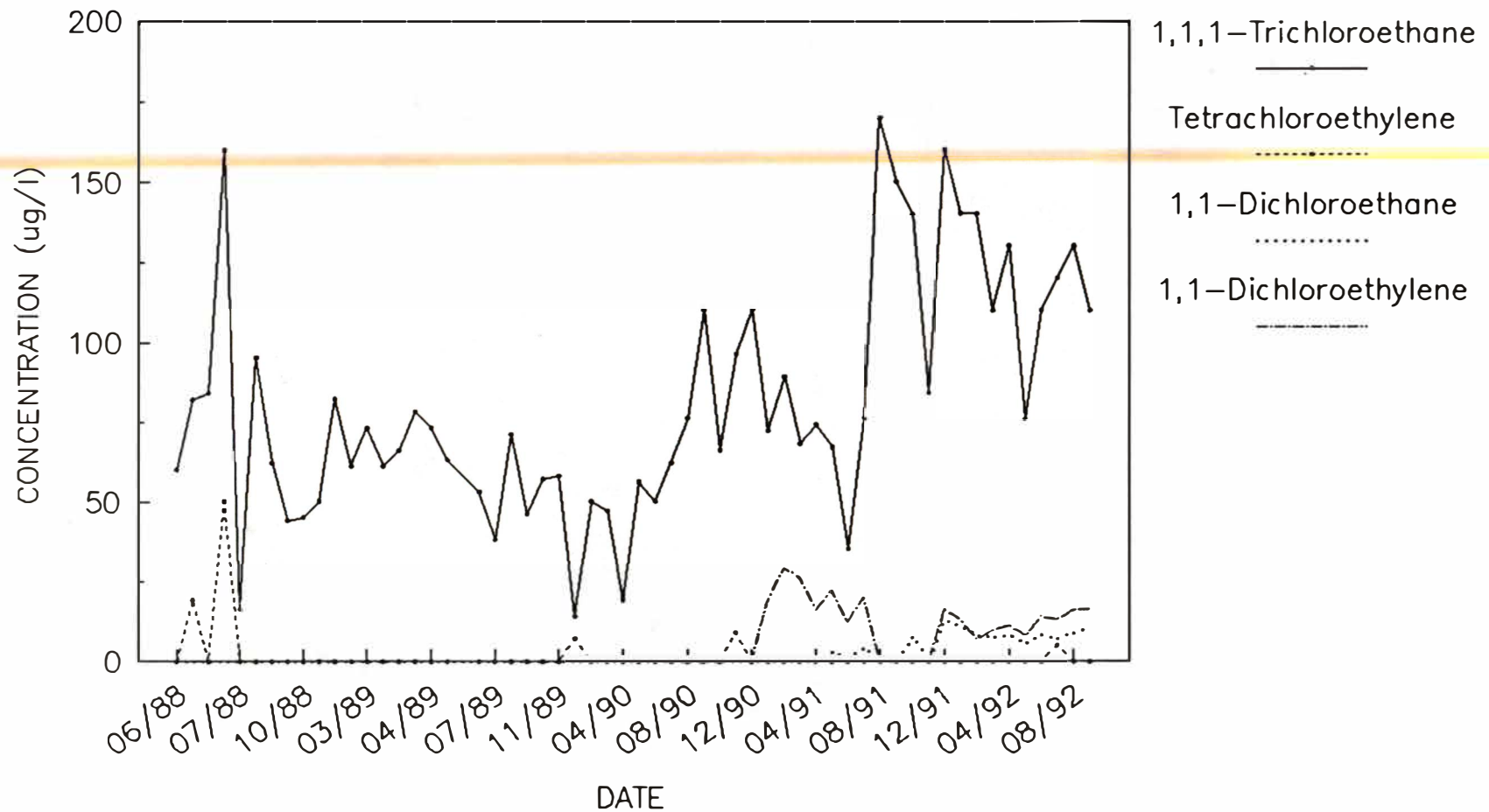
Updated: 10/06/92

# MILLER CONTAINER RW-1



Updated 10/06/92

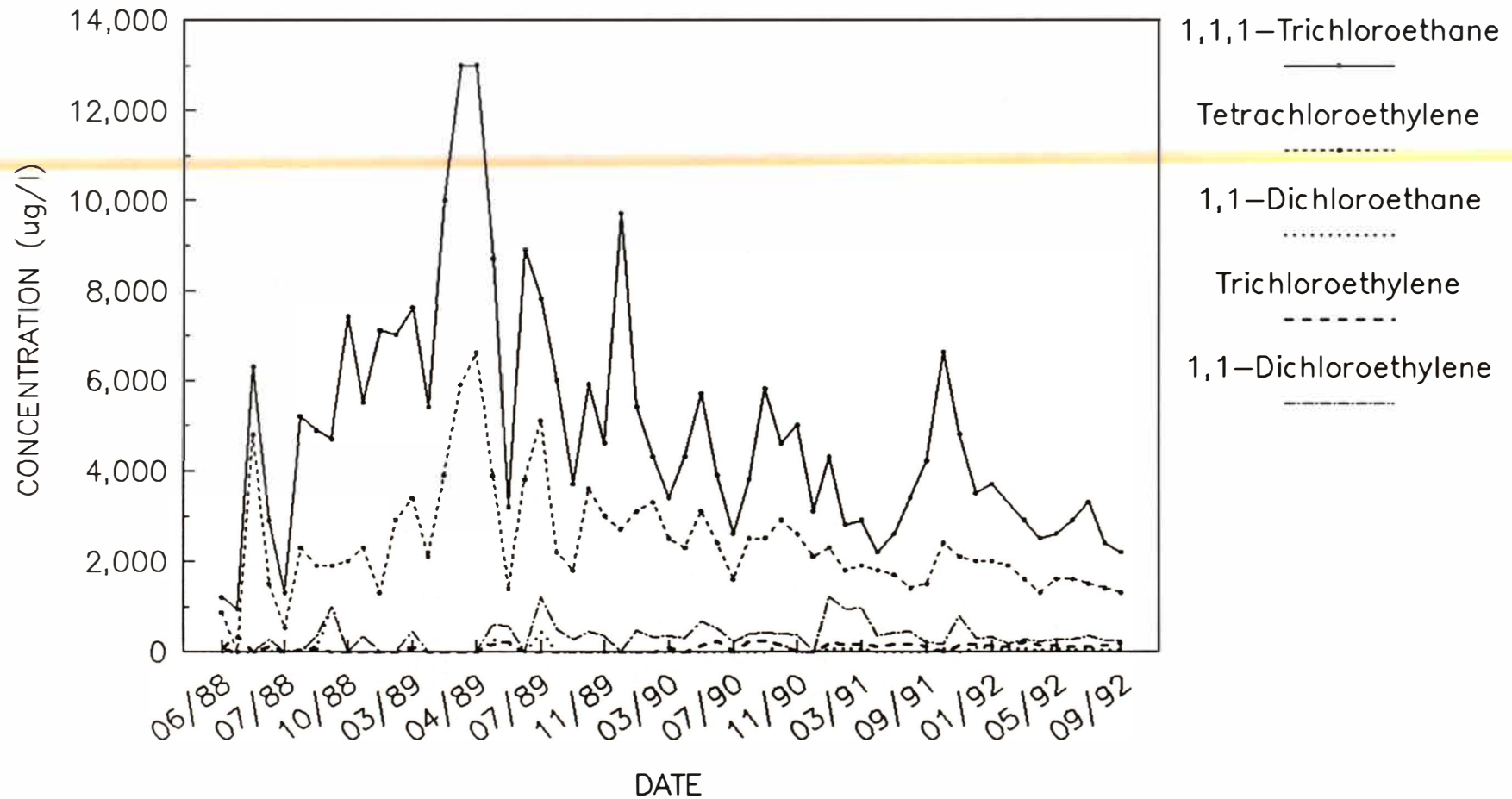
# MILLER CONTAINER RW-2



Updated 10/06/92

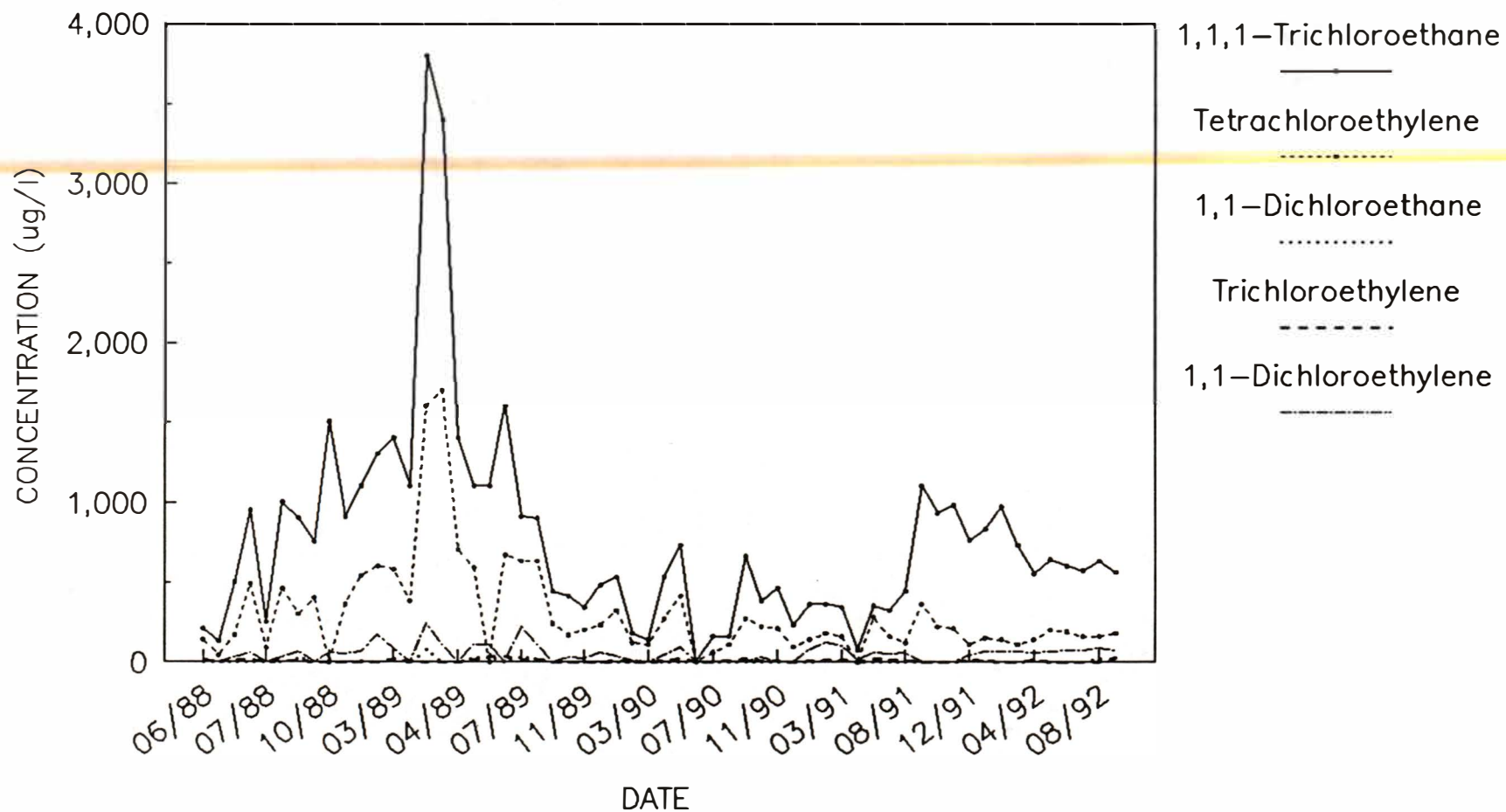
# MILLER CONTAINER

## RW-3



Updated 10/06/92

# MILLER CONTAINER COMBINED INFLUENT



Updated 10/06/92



## ***APPENDIX V***

### ***Municipal Aquifer Pumping Test Report (November 1992)***

PREPARED FOR

MILLER BREWING COMPANY  
CONTAINER DIVISION  
Fulton, New York

---

MUNICIPAL AQUIFER STUDY

**GROUND WATER PUMPING TEST  
AT FULTON MUNICIPAL WELLS  
K-1, K-2, AND M-2**

NOVEMBER 1992

December 18, 1992

Mr. Michael J. DiPietro  
Assistant Engineering Geologist  
Division of Hazardous Waste Remediation  
New York State Department of  
Environmental Conservation  
50 Wolf Road  
Albany, New York 12233

Re: Miller Container Municipal Aquifer Study and RW-1 Pumping Test

Dear Mr. DiPietro:

Enclosed are copies of the municipal aquifer pumping test report and the RW-1 pumping test report. The municipal aquifer pumping test was first referenced under Section VIII of the Amendment to Order on Consent Index #A701118704. However, the work was conducted as part of the RI/FS under Section XIV of the Order on Consent Index #A702659106. The RW-1 pumping test was requested by NYSDEC at the October 5, 1992 Technical Meeting at Miller Container, Fulton, NY.

We would appreciate any comments you might have on both pumping test reports as soon as possible.

Very truly yours,

MALCOLM PIRNIE, INC.



Mark D. Wilder, CPG  
Sr. Project Hydrogeologist

sah

cc: Ronald Heerkens, NYSDOH  
Al Grant, NYSDEE  
Thomas N. Swett, MBC  
Michael A. Barone, MBC  
Jeff A. Boehler, MBC  
Barry R. Kogut, BS & K

1028-09-1

# **MUNICIPAL AQUIFER STUDY**

---

## **GROUND WATER PUMPING TEST AT FULTON MUNICIPAL WELLS K-1, K-2 AND M-2**

---

**MILLER BREWING COMPANY  
CONTAINER DIVISION  
Fulton, New York**

**NOVEMBER 1992**

**MALCOLM PIRNIE, INC.  
7481 Henry Clay Blvd.  
Liverpool, New York 13088**

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## **1.0 INTRODUCTION**

### **1.1 GENERAL**

---

This Ground Water Pumping Test report has been prepared for Miller Brewing Company, Container Division (Miller Container) located in Fulton, New York. The report contains background information on the Miller Container site and the adjacent City of Fulton Municipal Water Works site; a statement of the purpose and scope of the pumping test which was performed at three Fulton municipal wells; a description of the field methods used during the test; a discussion of pumping test conditions; and an evaluation of the data collected during the test.

The pumping test involved several steps in which the pumping regimen at the three Fulton municipal water wells was altered: the pumping systems were turned off, restarted, and in some cases increased in flow rate. Water level changes in surrounding monitoring wells were measured and recorded to provide drawdown and recovery data. The response measured in the wells is dependent primarily on the time since the test started, the volume or rate of water withdrawn during pumping conditions, and the hydraulic characteristics of the aquifer.

The pumping test was performed in August 1992 in accordance with:

- The Ground Water Pumping Test Work Plan, initially submitted to the NYSDEC in March 1992.
- Subsequent comments and additional monitoring requirements from the NYSDEC.
- Conditions imposed by Water Works operations and/or the operation of the permanent water treatment system.

### **1.2 BACKGROUND**

---

The City of Fulton Municipal Water Works is located within the city limits between County Route 57 and the Oswego River, approximately 1500 feet northwest of the Miller Container (Figure 1-1). Fulton obtains drinking water from several wells in and around the city and from Onondaga County Water Authority (OCWA). Four municipal wells which have delivered drinking water to the municipal supply are located on the Water Works

- Using the information generated above, evaluate the potential for contamination in the vicinity of K-2/M-2 to migrate to K-1.

The foregoing work was made a part of the RI/FS under Section XIV of the Order on Consent Index #A702659106, which provided for the construction and operation of the permanent treatment facility.

### **1.3 PURPOSE & SCOPE**

---

The purpose of the ground water pumping test described in this report is to provide the information necessary to fulfill the RI/FS Consent Order requirement. Evaluation of the potential for contaminant migration from the K-2/M-2 vicinity to K-1 requires the examination of several aquifer characteristics and pumping well parameters:

- Aquifer storativity and transmissivity in the vicinity of the active municipal wells on the Water Works property.
- Potential boundary conditions (e.g., influence of the Oswego River).
- The relative and combined influence of the K-1 and K-2/M-2 systems.

Analysis of the data collected during the pumping test will aid in evaluating the potential for identified contamination to migrate to K-1.

A premonitoring period prior to the start-up of the pumping test encompassed approximately ten days during which water levels were measured on an increasingly frequent basis. During the premonitoring period, K-1, K-2, and M-2 were each discharging at rates typical for standard operation: K-1 at 510 - 535 gpm, K-2 at 44 gpm, and M-2 at 52-61 gpm. The pumping rate was raised slightly at M-2, and lowered slightly at K-1 by the City of Fulton during the premonitoring period.

The pumping test consisted of several phases, each phase being defined by a change in the pumping regimen at the K-1 pumping system or the K-2/M-2 pumping system. K-2 and M-2 are located within 30 feet of one another and are both pumped from essentially the same zone within the aquifer; therefore, these wells are treated as one pumping system for the purposes of this pumping test.

Phase I of the test was defined by turning off the pumps in K-2 and M-2. The K-2/M-2 system remained off until the last phase (Phase V) of the pumping test. Phase II was initiated by turning off the K-1 system. Phase III began with the restart of the K-1 system;

however, K-1 was turned off after approximately one hour due to chlorination activities at K-1 by the City of Fulton. This preliminary restart is referred to as Phase III A. Phase III B began as K-1 was again restarted, and maintained at a steady minimum pumping rate of 330 gallons per minute (gpm). Phase IV is comprised of IV A and IV B: Phase IV A began with a flow increase at K-1 from 330 to 525 gpm, and Phase IV B with an increase from 525 to approximately 555 gpm. MPI did not plan on two components of Phase IV. The 525 gpm flow rate during Phase IVA of the test was not a predetermined flow rate. This rate was established by the City of Fulton due to the City's concern that the lower rate would be necessary to prevent damaging the K-1 pumps. After about 24 hours, it was determined that a higher rate could be maintained (555 gpm). Therefore, Phase IVB ensued. Phase V of the pumping test is defined by the restart of the K-2/M-2 system at a combined flow rate of about 105 gpm; K-1 was maintained at 555 gpm throughout Phase V of the test.

Wells monitored for potential water level changes during the pumping test include the pumping wells and wells installed by Miller Container, the City of Fulton, the NYSDEC, and the USGS. The locations of these wells are indicated on Figure 1-1 with bold print; Table 1-1 is a list of all wells monitored and includes the specifications of each well. Wells located closest to the pumping system being manipulated were monitored with the highest frequency; measurement intervals decreased with distance from the pumping system, and with time from the start of each phase. The pumping well(s) of each phase and several nearby monitoring wells were equipped with pressure transducers programmed to record changes in water level at preset time intervals. The data were stored on electronic data loggers and were periodically down-loaded onto a portable computer. Other monitoring wells were measured manually with electronic water level probes; measurements were taken at varying frequencies, depending on location and time from the start of each phase. Table 1-2 shows the method of measurement at each well throughout the entire pumping test.

Three monitoring wells located near the Miller Container Plant, MW-5, MW-38S, and MW-39S, were used to monitor background water levels. Changes in the water levels at these wells were averaged and used to correct water level readings recorded at observation wells near the pumping wells. By utilizing this method, water level changes in response to the pumping test could be differentiated from seasonal trends or rainfall events.

**MILLER CONTAINER  
MUNICIPAL AQUIFER STUDY**

**TABLE 1-1  
MUNICIPAL AQUIFER PUMPING TEST – WELL SPECIFICATIONS**

|        | Meas.<br>Point<br>Elev.<br>(MSL) | Land<br>Surface<br>Elev.<br>(MSL) | Total<br>Depth<br>Well<br>(BLS) | Total<br>Depth<br>Well<br>(MSL) | Screened<br>Interval<br>(BLS) | Screened<br>Interval<br>(MSL) | Material<br>Screened | Top of<br>Till<br>(BLS) | Top of<br>Till<br>(MSL) | Date<br>Installed | Well<br>Type | Drill<br>Type |
|--------|----------------------------------|-----------------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|-------------------------|-------------------|--------------|---------------|
| MW-5   | 377.38                           | 375.32                            | 20.30                           | 355.02                          | 20.0 – 15.0                   | 355.32 – 360.32               | S+G                  | 20.0                    | 355.32                  | 09/30/86          | 2" SS        | A             |
| MW-8S  | 368.68                           | 366.62                            | 15.49                           | 351.13                          | 14.9 – 9.9                    | 351.72 – 356.72               | Slt+vfS              | NA                      | NA                      | 09/18/86          | 2" SS        | A             |
| MW-8I  | 368.12                           | 366.40                            | 50.00                           | 316.40                          | 50.0 – 40.0                   | 316.40 – 326.40               | Slt+vfS              | NA                      | NA                      | 11/14/91          | 2" PVC       | A             |
| MW-8D  | 368.30                           | 366.41                            | 66.40                           | 300.01                          | 66.0 – 61.0                   | 300.41 – 305.41               | S+G                  | 66.0                    | 300.41                  | 09/17/86          | 2" SS        | A             |
| MW-10S | 364.41                           | 362.74                            | 16.00                           | 346.74                          | 15.4 – 10.4                   | 347.34 – 352.34               | Slt+vfS              | NA                      | NA                      | 09/16/86          | 2" SS        | A             |
| MW-10D | 363.89                           | 362.60                            | 69.40                           | 293.20                          | 69.0 – 64.0                   | 293.60 – 298.60               | S+G                  | 68.8                    | 293.80                  | 09/16/86          | 2" SS        | A             |
| MW-13D | 365.27                           | 363.68                            | 44.00                           | 319.68                          | 44.0 – 33.2                   | 319.68 – 330.48               | S+G                  | 44.0                    | 319.68                  | 12/17/86          | 2" SS        | A             |
| MW-14S | 380.07                           | 378.30                            | 30.50                           | 347.80                          | 30.1 – 25.1                   | 348.16 – 353.20               | Slt+vfS              | NA                      | NA                      | 12/18/86          | 2" SS        | A             |
| MW-14D | 380.19                           | 378.40                            | 56.00                           | 322.40                          | 55.6 – 40.0                   | 322.80 – 338.40               | S+G                  | 55.5                    | 322.90                  | 12/18/86          | 2" SS        | A             |
| MW-15D | 369.99                           | 367.95                            | 42.00                           | 325.95                          | 41.5 – 36.5                   | 326.45 – 331.45               | S+G                  | 42.7                    | 325.25                  | 12/08/89          | 2" SS        | O             |
| MW-21S | 379.26                           | 377.11                            | 30.00                           | 347.11                          | 30.0 – 25.0                   | 347.11 – 352.11               | S+G                  | NA                      | NA                      | 04/23/90          | 2" PVC       | O             |
| MW-21D | 379.95                           | 377.69                            | 37.50                           | 340.19                          | 37.5 – 32.5                   | 340.19 – 345.19               | S+G                  | 37.5                    | 340.19                  | 04/23/90          | 2" PVC       | O             |
| MW-23S | 366.49                           | 364.72                            | 27.00                           | 337.72                          | 27.0 – 22.0                   | 337.72 – 342.72               | S+G                  | NA                      | NA                      | 05/03/90          | 2" PVC       | O             |
| MW-23D | 366.88                           | 365.08                            | 73.00                           | 292.08                          | 73.0 – 68.0                   | 292.08 – 297.08               | S+G                  | 73.0                    | 292.08                  | 05/02/90          | 2" PVC       | O             |
| MW-24S | 363.54                           | 361.78                            | 17.00                           | 344.78                          | 17.0 – 12.0                   | 344.78 – 349.78               | fS                   | NA                      | NA                      | 05/07/90          | 2" PVC       | O             |
| MW-24D | 363.67                           | 361.72                            | 42.00                           | 319.72                          | 42.0 – 37.0                   | 319.72 – 324.72               | S+G                  | 42.0                    | 319.72                  | 05/04/90          | 2" PVC       | O             |
| MW-25S | 365.98                           | 364.36                            | 24.00                           | 340.36                          | 24.0 – 19.0                   | 340.36 – 345.36               | fmS+Slt              | NA                      | NA                      | 05/11/90          | 2" PVC       | O             |
| MW-25D | 368.14                           | 366.14                            | 56.50                           | 309.64                          | 56.5 – 51.5                   | 309.64 – 314.64               | S+G                  | 56.5                    | 309.64                  | 05/08/90          | 2" PVC       | O             |
| MW-28S | 356.94                           | 355.08                            | 13.00                           | 342.08                          | 13.0 – 8.0                    | 342.08 – 347.08               | S+G                  | NA                      | NA                      | 08/23/90          | 2" PVC       | A/O           |
| MW-28I | 357.44                           | 355.36                            | 39.70                           | 315.66                          | 39.7 – 29.7                   | 315.66 – 325.66               | S+G                  | NA                      | NA                      | 08/22/90          | 2" PVC       | O             |
| MW-28D | 357.04                           | 354.89                            | 66.00                           | 288.89                          | 66.0 – 61.0                   | 288.89 – 293.89               | S+G                  | 68.5                    | 286.39                  | 08/22/90          | 2" PVC       | O             |
| MW-29S | 355.27                           | 353.35                            | 13.00                           | 340.35                          | 13.0 – 8.0                    | 340.35 – 345.35               | S+G                  | NA                      | NA                      | 08/31/90          | 2" PVC       | O             |
| MW-29I | 355.37                           | 353.55                            | 44.80                           | 308.75                          | 44.8 – 29.8                   | 308.75 – 323.75               | S+G                  | NA                      | NA                      | 08/31/90          | 2" PVC       | O             |
| MW-29D | 355.25                           | 353.61                            | 64.00                           | 289.61                          | 64.0 – 59.0                   | 289.61 – 294.61               | S+G                  | 64.4                    | 289.21                  | 08/24/90          | 2" PVC       | O             |
| MW-30S | 354.11                           | 352.51                            | 18.00                           | 334.51                          | 18.0 – 8.0                    | 334.51 – 344.51               | Slt+vfS              | NA                      | NA                      | 09/07/90          | 2" PVC       | O             |
| MW-30I | 354.11                           | 352.41                            | 39.90                           | 312.51                          | 39.9 – 29.9                   | 312.51 – 322.51               | S+G                  | NA                      | NA                      | 09/06/90          | 2" PVC       | O             |
| MW-30D | 354.07                           | 352.47                            | 64.10                           | 288.37                          | 64.1 – 59.1                   | 288.37 – 293.37               | S+G                  | 64.8                    | 287.67                  | 09/05/90          | 2" PVC       | O             |
| MW-31S | 355.62                           | 353.94                            | 13.00                           | 340.94                          | 13.0 – 8.0                    | 340.94 – 345.94               | Slt+vfS              | NA                      | NA                      | 09/10/90          | 2" PVC       | A             |
| MW-31I | 355.67                           | 353.92                            | 40.00                           | 313.92                          | 40.0 – 30.0                   | 313.92 – 323.92               | S+G                  | NA                      | NA                      | 09/10/90          | 2" PVC       | O             |
| MW-31D | 356.22                           | 354.26                            | 61.00                           | 293.26                          | 61.0 – 56.0                   | 293.26 – 298.26               | S+G                  | 64.4                    | 289.86                  | 09/07/90          | 2" PVC       | O             |
| MW-32D | 381.31                           | 379.77                            | 61.00                           | 318.77                          | 61.0 – 56.0                   | 318.77 – 323.77               | S+G                  | 61.5                    | 318.27                  | 09/12/90          | 2" PVC       | O             |
| MW-34D | 385.08                           | 382.50                            | 60.00                           | 322.50                          | 60.0 – 55.0                   | 322.50 – 327.50               | S+G                  | 63.5                    | 319.00                  | 09/14/90          | 2" PVC       | O             |
| MW-35D | 381.36                           | 378.98                            | 72.00                           | 306.98                          | 72.0 – 67.0                   | 306.98 – 311.98               | S+G                  | 72.0                    | 306.98                  | 09/17/90          | 2" PVC       | O             |
| MW-38S | 373.61                           | 371.64                            | 20.00                           | 351.64                          | 20.0 – 10.0                   | 351.64 – 361.64               | Slt+vfS              | NA                      | NA                      | 11/27/90          | 2" PVC       | A             |
| MW-39S | 372.26                           | 370.61                            | 18.00                           | 352.61                          | 18.0 – 8.0                    | 352.61 – 362.61               | Slt+vfS              | NA                      | NA                      | 11/29/90          | 2" PVC       | A             |
| MW-42S | 354.06                           | 352.40                            | 20.40                           | 332.00                          | 20.4 – 5.4                    | 332.00 – 347.00               | Slt+vfS              | NA                      | NA                      | 05/06/91          | 2" PVC       | A             |
| MW-43S | 353.58                           | 352.00                            | 20.15                           | 331.85                          | 20.2 – 5.2                    | 331.85 – 346.80               | Slt+vfS              | NA                      | NA                      | 05/07/91          | 2" PVC       | A             |
| MW-43D | 353.50                           | 352.00                            | 56.10                           | 295.90                          | 55.8 – 50.8                   | 296.20 – 301.20               | S+G                  | 55.3                    | 296.81                  | 05/07/91          | 2" PVC       | A             |
| MW-44S | 353.06                           | 351.40                            | 20.40                           | 331.00                          | 20.4 – 5.4                    | 331.00 – 346.00               | Slt+vfS              | NA                      | NA                      | 05/07/91          | 2" PVC       | A             |
| MW-45S | 354.50                           | 352.90                            | 20.10                           | 332.80                          | 20.1 – 5.1                    | 332.80 – 347.80               | Slt+vfS              | NA                      | NA                      | 05/08/91          | 2" PVC       | A             |
| MW-45D | 354.04                           | 352.40                            | 29.60                           | 322.80                          | 29.6 – 24.6                   | 322.80 – 327.80               | S+G                  | 29.4                    | 323.08                  | 05/08/91          | 2" PVC       | A             |
| MW-46S | 354.12                           | 352.50                            | 20.50                           | 332.00                          | 20.5 – 5.5                    | 332.00 – 347.00               | Slt+vfS              | NA                      | NA                      | 05/09/91          | 2" PVC       | A             |
| MW-46D | 354.24                           | 352.40                            | 70.60                           | 281.80                          | 68.6 – 63.6                   | 283.80 – 288.80               | S+G                  | 68.5                    | 283.89                  | 05/09/91          | 2" PVC       | A             |
| MW-49S | 378.93                           | 377.60                            | 35.00                           | 342.60                          | 35.0 – 25.0                   | 342.60 – 352.60               | S+G                  | NA                      | NA                      | 11/22/91          | 2" PVC       | A             |
| MW-49I | 379.16                           | 377.50                            | 52.00                           | 325.50                          | 52.0 – 42.0                   | 325.50 – 335.50               | S+G                  | NA                      | NA                      | 11/22/91          | 2" PVC       | A             |
| MW-49D | 379.04                           | 377.40                            | 72.20                           | 305.20                          | 72.2 – 62.2                   | 305.20 – 315.20               | S+G                  | 72.5                    | 304.90                  | 11/21/91          | 2" PVC       | A             |



# MILLER CONTAINER MUNICIPAL AQUIFER STUDY

## TABLE 1-1 MUNICIPAL AQUIFER PUMPING TEST – WELL SPECIFICATIONS

|        | Meas.<br>Point<br>Elev.<br>(MSL) | Land<br>Surface<br>Elev.<br>(MSL) | Total<br>Depth<br>Well<br>(BLS) | Total<br>Depth<br>Well<br>(MSL) | Screened<br>Interval<br>(BLS) | Screened<br>Interval<br>(MSL) | Material<br>Screened | Top of<br>Till<br>(BLS) | Top of<br>Till<br>(MSL) | Date<br>Installed | Well<br>Type | Drill<br>Type |
|--------|----------------------------------|-----------------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|----------------------|-------------------------|-------------------------|-------------------|--------------|---------------|
| MW-50S | 362.82                           | 361.40                            | 18.00                           | 343.40                          | 18.0 – 8.0                    | 343.40 – 353.40               | Slt+vfS              | NA                      | NA                      | 11/12/91          | 2" PVC       | A             |
| MW-50I | 362.57                           | 361.50                            | 45.00                           | 316.50                          | 45.0 – 35.0                   | 316.50 – 326.50               | Slt+vfS              | NA                      | NA                      | 11/11/91          | 2" PVC       | A             |
| MW-50D | 362.67                           | 361.40                            | 72.00                           | 289.40                          | 72.0 – 62.0                   | 289.40 – 299.40               | S+G                  | 72.0                    | 289.40                  | 11/08/91          | 2" PVC       | A             |
| MW-57S | 365.01                           | 365.20                            | 25.00                           | 340.20                          | 25.0 – 10.0                   | 340.20 – 355.20               | Slt+vfS              | NA                      | NA                      | 12/11/91          | 2" PVC       | A             |
| MW-57D | 365.23                           | 365.40                            | 76.00                           | 289.40                          | 76.0 – 66.0                   | 289.40 – 299.40               | S+G                  | 75.0                    | 290.40                  | 12/11/91          | 2" PVC       | A             |
| K-1    | 355.54                           | 353.50                            | 23.80                           | 329.70                          | NOTE A                        | NOTE A                        | S+Slt                | NA                      | NA                      |                   |              | DUG           |
| M-1    | 354.12                           | 352.20                            | 40.00                           | 312.20                          | NOTE B                        | NOTE B                        | S+Slt/S+G            | NA                      | NA                      |                   |              |               |
| K-2    | 355.51                           | 353.00                            | 23.00                           | 330.00                          | NOTE A                        | NOTE A                        | S+Slt/S+G            | NA                      | NA                      |                   |              | DUG           |
| M-2    | 356.27                           | 355.00                            | 37.30                           | 317.70                          | NOTE B                        | NOTE B                        | S+Slt/S+G            | NA                      | NA                      |                   |              |               |
| USGS-1 | 356.30                           | 350.80                            | 23.00                           | 327.80                          | 23.0 – 21.0                   | 327.80 – 329.80               | S+G                  | 72.0                    | 278.8                   | 07/02/80          | 2" BS        |               |
| USGS-2 | 355.81                           | 352.30                            | 29.20                           | 323.10                          | 29.2 – 25.2                   | 323.10 – 327.10               | S+G                  | NA                      | NA                      | 09/09/80          | 2" PVC       |               |
| GW-1   | 364.66                           | 362.70                            | 35.00                           | 327.70                          | 21.0 – 31.0                   | 341.70 – 331.70               | Slt+vfS              | NA                      | NA                      | 11/16/88          | 2" PVC       | A             |
| GW-2   | 354.04                           | 351.30                            | 25.00                           | 326.30                          | 14.0 – 24.0                   | 337.30 – 327.30               | S+G                  | NA                      | NA                      | 11/14/88          | 2" PVC       | A             |
| GW-4   | 352.86                           | 350.70                            | 21.00                           | 329.70                          | 9.0 – 19.0                    | 341.70 – 331.70               | S                    | NA                      | NA                      | 11/15/88          | 2" PVC       | A             |
| D-1    | 359.10                           | 359.30                            | 18.00                           | 341.30                          | 8.0 – 18.0                    | 351.30 – 341.30               | S                    | NA                      | NA                      | 09/25/91          | 2" PVC       | A             |
| D-2    | 351.26                           | 351.70                            | 10.00                           | 341.70                          | 3.0 – 10.0                    | 348.70 – 341.70               | S+Slt                | NA                      | NA                      | 09/26/91          | 2" PVC       | A             |
| D-3    | 353.79                           | 354.40                            | 14.00                           | 340.40                          | 4.0 – 14.0                    | 350.40 – 340.40               | S+Slt                | NA                      | NA                      | 09/26/91          | 2" PVC       | A             |
| D-4    | 359.48                           | 359.80                            | 18.00                           | 341.80                          | 8.0 – 18.0                    | 351.80 – 341.80               | S+Slt/S+G            | NA                      | NA                      | 09/26/91          | 2" PVC       | A             |
| D-5    | 359.97                           | 360.00                            | 18.00                           | 342.00                          | 8.0 – 18.0                    | 352.00 – 342.00               | S+Slt                | NA                      | NA                      | 09/27/91          | 2" PVC       | A             |
| D-6    | 352.80                           | 353.00                            | 13.00                           | 340.00                          | 3.0 – 13.0                    | 350.00 – 340.00               | S+Slt                | NA                      | NA                      | 10/21/91          | 2" PVC       | A             |
| D-7    | 354.46                           | 354.70                            | 14.00                           | 340.70                          | 4.0 – 14.0                    | 350.70 – 340.70               | S+Slt                | NA                      | NA                      | 10/21/91          | 2" PVC       | A             |

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NOTE A = Open bottom well, approximately 20 ft. diameter.

NOTE B = Well screened intermittently from land surface to bottom of well.

EXPLANATION: MSL = Relative to feet above Mean Sea Level  
 BLS = Relative to feet Below Land Surface  
 2" PVC = 2 inch inner diameter PVC well  
 4" PVC = 4 inch inner diameter PVC well  
 6" PVC = 6 inch inner diameter PVC well  
 2" SS = 2 inch inner diameter stainless steel well  
 6" SS = 6 inch inner diameter stainless steel well  
 2" BS = 2 inch inner diameter black steel well  
 A = Hollow-stem augers  
 F = Flush-joint casing  
 R = Rotary method

NA = Not Applicable  
 S+G = Sand and gravel  
 Slt+vfS = Silt and very fine grained Sand  
 IntSS+Sltst = Interbedded Sandstone and Siltstone  
 fmS+Slt = fine to medium grained Sand and Silt  
 fS = fine grained Sand  
 SltCl+fS = Silty Clay and fine grained Sand  
 Slt+S+G = Silt and Sand and Gravel  
 CG = Clayey Gravel  
 O = ODEX method  
 C = Cable tool

**MILLER CONTAINER  
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**TABLE 1-2  
METHOD OF WATER LEVEL MEASUREMENT**

| PHASE | Premonitoring |            | Phase I   | Phase II  | Phase III   | Phase IV    | Phase V     | End  |
|-------|---------------|------------|-----------|-----------|-------------|-------------|-------------|------|
| WELL  | 7/24 - 7/30   | 7/30 - 8/3 | 8/3 - 8/5 | 8/6 - 8/9 | 8/10 - 8/12 | 8/13 - 8/18 | 8/19 - 8/21 | 8/22 |
| 5     | M             | M          | M         | M         | M           | M           | M           | M    |
| 8S    | M             | M          | M         | M         | M           | M           | M           | M    |
| 8I    | M             | M          | M         | M         | M           | M           | M           | M    |
| 8D    | M             | M          | M         | M         | M           | M           | M           | M    |
| 10S   | M             | M          | XD        | M         | M           | M           | M           | M    |
| 10D   | M             | M          | XD        | M         | M           | M           | M           | M    |
| 13D   | M             | M          | M         | M         | M           | M           | M           | M    |
| 14S   | M             | M          | M         | M         | M           | M           | M           | M    |
| 14D   | M             | M          | M         | M         | M           | M           | M           | M    |
| 15D   | M             | M          | M         | M         | M           | M           | M           | M    |
| 21S   | M             | M          | M         | M         | M           | M           | M           | M    |
| 21D   | M             | M          | M         | M         | M           | M           | M           | M    |
| 23S   | M             | M          | M         | M         | M           | M           | M           | M    |
| 23D   | M             | M          | M         | M         | M           | M           | M           | M    |
| 24S   | M             | M          | M         | M         | M           | M           | M           | M    |
| 24D   | M             | M          | M         | M         | M           | M           | M           | M    |
| 25S   | M             | M          | M         | M         | M           | M           | M           | M    |
| 25D   | M             | M          | M         | M         | M           | M           | M           | M    |
| 28S   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 28I   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 28D   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 29S   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 29I   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 29D   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 30S   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 30I   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 30D   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 31S   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 31I   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 31D   | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| 32D   | M             | M          | M         | M         | M           | M           | M           | M    |
| 34D   | M             | M          | M         | M         | M           | M           | M           | M    |
| 35D   | M             | M          | M         | M         | M           | M           | M           | M    |
| 38S   | M             | M          | M         | M         | M           | M           | M           | M    |
| 39S   | M             | M          | M         | M         | M           | M           | M           | M    |
| 42S   | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| 43S   | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| 43D   | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| 44S   | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| 45S   | M             | M          | M         | XD        | XD          | XD          | M           | M    |

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**TABLE 1-2  
METHOD OF WATER LEVEL MEASUREMENT**

| PHASE  | Premonitoring |            | Phase I   | Phase II  | Phase III   | Phase IV    | Phase V     | End  |
|--------|---------------|------------|-----------|-----------|-------------|-------------|-------------|------|
| WELL   | 7/24 - 7/30   | 7/30 - 8/3 | 8/3 - 8/5 | 8/6 - 8/9 | 8/10 - 8/12 | 8/13 - 8/18 | 8/19 - 8/21 | 8/22 |
| 45D    | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| 46S    | M             | M          | M         | M         | M           | M           | XD          | M    |
| 46D    | M             | M          | M         | M         | M           | M           | XD          | M    |
| 49S    | M             | M          | M         | M         | M           | M           | M           | M    |
| 49I    | M             | M          | M         | M         | M           | M           | M           | M    |
| 49D    | M             | M          | M         | M         | M           | M           | M           | M    |
| 50S    | M             | M          | M         | M         | M           | M           | M           | M    |
| 50I    | M             | M          | M         | M         | M           | M           | M           | M    |
| 50D    | M             | M          | M         | M         | M           | M           | M           | M    |
| 57S    | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| 57D    | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| K-1    | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| M-1    | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| K-2    | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| M-2    | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| USGS-1 | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| USGS-2 | M             | XD         | XD        | M         | M           | M           | XD          | M    |
| GW-1   | M             | M          | M         | M         | M           | M           | M           | M    |
| GW-2   | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| GW-4   | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| D-1    | M             | M          | M         | M         | M           | M           | M           | M    |
| D-2    | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| D-3    | M             | M          | M         | XD        | XD          | XD          | M           | M    |
| D-4    | M             | M          | M         | M         | M           | M           | M           | M    |
| D-5    | M             | M          | M         | M         | M           | M           | M           | M    |
| D-6    | M             | M          | M         | M         | M           | M           | M           | M    |
| D-7    | M             | M          | M         | XD        | XD          | XD          | M           | M    |

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**Notes:**

M - indicates manual measurement using electronic water level probe.

XD - indicates well equipped with pressure transducer; changes in water level recorded on data logger.



## 2.0 PUMPING TEST

### 2.1 PREMONITORING

---

The ground water pumping test performed at the Fulton Water Works was preceded by a premonitoring period during which water levels were measured on an increasingly frequent basis. In addition, an historical account of ground water elevations dating from May 1991 at most of the wells monitored during the test is included in Appendix A. Earlier data from some wells are not included in Appendix A, because they had not yet been installed, or were added to the pumping test monitoring list at a later date.

The premonitoring period began July 24, 1992 and continued until Phase I began on August 3, 1992. Water levels were measured July 24,28,29,30,31, and August 1. Pumping rates at K-1, K-2, and M-2 were also recorded. Table 2-1 shows pumping rates at the municipal wells during the premonitoring period. Ideally, wells are to be pumped at a constant rate throughout the premonitoring period to insure stabilization of the aquifer under the set pumping conditions. The flow rate at K-2 remained constant during this time; however, Water Works personnel increased the rate at M-2 on July 31, and decreased the rate at K-1, sometime between July 29 and July 30.

K-2, M-2, and thirteen nearby monitoring wells were equipped with pressure transducers on July 30, 1992 (see Table 1-2). Water levels at these wells were measured just before installation of the transducers and are used as reference water levels when interpreting the data recorded. The pressure transducers are connected to an electronic data logger and the system is preset to record changes in water levels at specified time intervals. The water level and corresponding ground water elevation can be determined from any time within the database by using the reference water level and the measuring point elevation. Measurement frequencies can be set on a linear scale, which was used during premonitoring, or on a logarithmic scale which was used at the start of a new phase. An extensive database was generated throughout the pumping test from the measurements recorded via transducers. The raw data collected manually is included in Appendix B. The data logger data is being forwarded to appropriate technical personnel on computer diskettes.

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**TABLE 2-1**

**AVERAGE DAILY PUMPING RATES AT K - 1, K - 2, AND M - 2**

| TEST<br>PHASES | PUMPING RATES |           |                    |       |       |         |                   | NOTES                                                                                                                                                                                                                                                                        |                                                                       |
|----------------|---------------|-----------|--------------------|-------|-------|---------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|                | DATE          | K - 1     |                    | K - 2 |       | M - 2   |                   |                                                                                                                                                                                                                                                                              |                                                                       |
|                |               | GPM       | GPD                | GPM   | GPD   | GPM     | GPD               |                                                                                                                                                                                                                                                                              |                                                                       |
| Premonitoring  | 7/24          | 576 - 596 | 829440 -<br>858240 | 44    | 63360 | 50 - 70 | 72000 -<br>100800 | 7/29-7/30 K-1 decreased by Water<br>Works personnel.<br><br>7/31 M-2 increased by Water Works<br>personnel.                                                                                                                                                                  |                                                                       |
|                | 7/25 AM       | 535       | 770400             | 44    | 63360 | 40 - 60 | 5760-86400        |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 7/25 PM       | 535       | 770400             | 44    | 63360 | 52      | 74880             |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 7/26 AM       | 535       | 770400             | 44    | 63360 | 52      | 74880             |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 7/26 PM       | 535       | 770400             | 44    | 63360 | 41      | 59040             |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 7/27          | 535       | 770400             | 44    | 63360 | 51      | 73440             |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 7/28          | 535       | 770400             | 44    | 63360 | 51      | 73440             |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 7/29          | 535       | 770400             | 44    | 63360 | 51      | 73440             |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 7/30          | 510       | 734400             | 44    | 63360 | 52      | 74880             |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 7/31          | 510       | 734400             | 44    | 63360 | 61      | 87840             |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/01          | 510       | 734400             | 44    | 63360 | 61      | 87840             |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/02          | 510       | 734400             | 43    | 61920 | 61      | 87840             |                                                                                                                                                                                                                                                                              |                                                                       |
| Phase I        | 8/03          | 510       | 734400             | OFF   | OFF   | OFF     | OFF               | 8/7-8/8 K-1 on intermittently to dis-<br>charge chlorinated water to the<br>holding tank.<br><br>8/11 K-1 off from approximately<br>4:40 am-9:30 am, due to an electrical<br>outage.<br><br>8/15 Decreased pumping rate at K-1 due<br>to a decrease in head within the well. |                                                                       |
|                | 8/04          | 510       | 734400             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/05          | 510       | 734400             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
| Phase II       | 8/06          | OFF       | OFF                | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
| Phase IIIA     | 8/07          | OFF       | OFF                | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/08          | OFF       | OFF                | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/09          | OFF       | OFF                | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
| Phase IIIB     | 8/10          | 330       | 475200             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/11          | 330       | 475200             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/12          | 325       | 468000             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
| Phase IVA      | 8/13          | 525       | 756000             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
| Phase IVB      | 8/14          | 558       | 803520             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/15 AM       | 558       | 803520             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/15 PM       | 550       | 792000             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/16          | 550       | 792000             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/17          | 550       | 792000             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/18          | 555       | 799200             | OFF   | OFF   | OFF     | OFF               |                                                                                                                                                                                                                                                                              |                                                                       |
| Phase V        | 8/19          | 555       | 799200             | 46    | 66240 | 62      | 89280             |                                                                                                                                                                                                                                                                              | 8/19-8/21 Decreased pumping rate at<br>M-2 due to a decrease in head. |
|                | 8/20          | 555       | 799200             | 46    | 66240 | 60      | 86400             |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/21          | 555       | 799200             | 46    | 66240 | 57      | 82080             |                                                                                                                                                                                                                                                                              |                                                                       |
|                | 8/22          | 552       | 794880             | 46    | 66240 | 57      | 82080             |                                                                                                                                                                                                                                                                              |                                                                       |

For the remainder of the premonitoring period, water level changes were recorded using a linear frequency at the wells equipped with transducers. Water levels at the other wells were measured manually once per day, except for Sunday, August 2 when no measurements were taken.

## **2.2 PHASE I**

---

Phase I started at 8:00 a.m., August 3, with the shutdown of the K-2/M-2 system. Transducers recorded the water level recovery in the pumping wells and nearby monitoring wells (see Table 1-2). Transducers were also installed at MW-10S,D just prior to the test start. Water levels were measured at the remainder of the wells once prior to the beginning of the test, then at decreasing time intervals. Table 2-2 indicates the frequency of water level measurements at each of the wells not equipped with pressure transducers during the first 12 hours of Phase I. For the remainder of Phase I, August 4 and 5, water levels were measured three times daily at each of the wells without transducers. On the afternoon of August 5, transducers were removed from the wells, cleaned, and installed in the designated wells surrounding K-1 (see Table 1-2). The K-2/M-2 system remained off throughout Phases II, III, and IV.

## **2.3 PHASE II**

---

Phase II began August 6 following a complete round of water level measurements. The pumps in K-1 were turned off at 8:10 a.m. Water level changes during the first 12 hours in wells not equipped with transducers, were monitored as shown in Table 2-3. A complete round of water levels was collected again at approximately  $t=24$  hours and  $t=28$  hours (August 7 around 12:00 p.m.). On the morning of August 7, it was determined by MPI and Fulton Water Works personnel that Phase III would begin at approximately 12:00 p.m.

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**TABLE 2-2  
MEASUREMENT INTERVALS AT WELLS  
MONITORED MANUALLY: PHASE I (t=0 to 12 hours)**

| Approximate<br>Time from Start<br>of Phase | Wells                         |          |         |            |
|--------------------------------------------|-------------------------------|----------|---------|------------|
| @ t = 0 min.                               | All Wells Without Transducers |          |         |            |
| @ t = 20 min.                              | 8 S, I, D                     | 21 S, D  | 32 D    | 49 S, I, D |
| 40                                         | 13 D                          | 23 S, D  | 34 D    | 50 S, I, D |
| 60                                         | 14 S,D                        | 24 S, D  | 35 D    |            |
| 80                                         | 15 D                          | 25 S, D  | 46 S, D |            |
| 100                                        |                               |          |         |            |
| @ t = 100 min.                             | 5                             | 21 S, D  | 34 D    | 49 S, I, D |
| 200                                        | 8 S, I, D                     | 23 S, D  | 35 D    | 50 S, I, D |
| 300                                        | 13 D                          | 24 S, D  | 38 S    |            |
| 400                                        | 14 S,D                        | 25 S, D  | 39 S    |            |
|                                            | 15 D                          | 32 D     | 46 S, D |            |
| @ t = 250 min.                             | 42 S                          | K - 1    | GW - 4  | D - 5      |
|                                            | 43 S, D                       | M - 1    | D - 1   | D - 6      |
|                                            | 44 S                          | USGS - 1 | D - 2   | D - 7      |
|                                            | 45 S, D                       | GW - 1   | D - 3   |            |
|                                            | 57 S, D                       | GW - 2   | D - 4   |            |
| @ t = 500 min.                             | All Wells Without Transducers |          |         |            |
| @ t = 12 hours                             | All Wells Without Transducers |          |         |            |

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**TABLE 2-3  
MEASUREMENT INTERVALS AT WELLS  
MONITORED MANUALLY: PHASE II (t=0 to 12 hours)**

| Approximate<br>Time from Start<br>of Phase | Wells                         |         |            |            |
|--------------------------------------------|-------------------------------|---------|------------|------------|
| @ t = 0 min.                               | All Wells Without Transducers |         |            |            |
| @ t = 20 min.                              | GW - 1                        | D - 6   | 15 D       | 46 S, D    |
| 40                                         | D - 1                         | 8 S, D  | 21 S, D    | 49 S, I, D |
| 60                                         | D - 4                         | 13 D    | 23 S, D    | 50 S, I, D |
| 80                                         | D - 5                         | 14 S, D | 30 S, I, D |            |
| 100                                        |                               |         |            |            |
| @ t = 100 min.                             | GW - 1                        | 5       | 21 S, D    | 46 S, D    |
| 200                                        | D - 1                         | 8 S, D  | 23 S, D    | 49 S, I, D |
| 300                                        | D - 4                         | 13 D    | 30 S, I, D | 50 S, I, D |
| 400                                        | D - 5                         | 14 S, D | 38 S       |            |
|                                            | D - 6                         | 15 D    | 39 S       |            |
| @ t = 250 min.                             | K - 2                         | 10 S, D | 28 S, I, D | 32 D       |
|                                            | M - 2                         | 24 S, D | 29 S, I, D | 34 D       |
|                                            | USGS - 2                      | 25 S, D | 31 S, I, D | 35 D       |
| @ t = 500 min.                             | All Wells Without Transducers |         |            |            |
| @ t = 12 hours                             | All Wells Without Transducers |         |            |            |

## **2.4 PHASES IIIA AND IIIB**

---

Phase IIIA began August 7 with the restart of the K-1 system at a minimum pumping rate of 330 gpm. (This rate had previously been determined as the minimum pumping rate necessary to prevent seepage of ground water into the basement of the Water Works building.) K-1 was restarted at 12:15 p.m., beginning Phase III; however, K-1 was turned off again after approximately one hour due to high chlorine residual concentrations in the municipal holding tank. Municipal Water Works personnel had added approximately 30 gallons of 10.5 percent chlorine solution to K-1 at about 8:30 a.m. because of the potential presence of coliform bacteria in K-1. As K-1 began pumping again, the chlorine concentration in the holding tank became elevated and K-1 was turned off. In order to dilute the chlorine in the tank, water from K-1 was pumped to the tank intermittently for the next 24 hours. Following the temporary re-start of K-1, water levels were re-measured and the data logger set to record on a linear time scale for the duration of Phase IIIA. Other monitoring wells were measured twice on August 8, and once on August 9. K-1 remained off until August 10.

The K-1 system was turned on at a rate of 330 gpm at 8:45 a.m., August 10, beginning Phase IIIB. Wells not equipped with transducers were monitored according to Table 2-4. At approximately  $t = 19$  hours, an electrical storm caused the K-1 system to shut down for about five hours. Pumping at 330 gpm for the initial 9 hours produced about five feet of drawdown at K-1; the five-hour shut down caused the water level in K-1 to rise 4.5 feet. The initial five feet of drawdown in K-1 was reached again approximately 24 hours after K-1 was restarted. All water levels were measured three times daily following the first day of Phase IIIB.

## **2.5 PHASES IVA AND IVB**

---

Phase IVA started August 13 at 7:45 a.m. with the increase of the K-1 pumping rate from 330 to 525 gpm. As indicated previously, the 525 gpm pumping rate was not a scheduled pumping rate but a rate selected by Fulton Water Works personnel. Wells were monitored as shown in Table 2-5.

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**TABLE 2-4  
MEASUREMENT INTERVALS AT WELLS  
MONITORED MANUALLY: PHASE IIIB (t=0 to 12 hours)**

| Approximate<br>Time from Start<br>of Phase | Wells                                |            |            |          |
|--------------------------------------------|--------------------------------------|------------|------------|----------|
| @ t = 0 min.                               | All Wells Without Transducers        |            |            |          |
| @ t = 20 min.                              | 8 S, I, D                            | 21 S, D    | 49 S, I, D | D - 4    |
| 40                                         | 13 D                                 | 23 S, D    | 50 S, I, D | D - 5    |
| 60                                         | 14 S,D                               | 30 S, I, D | GW - 1     | D - 6    |
| 80                                         | 15 D                                 | 46 S, D    | D - 1      |          |
| 100                                        |                                      |            |            |          |
| @ t = 100 min.                             | 5                                    | 21 S, D    | 46 S, D    | D - 4    |
| 200                                        | 8 S, I, D                            | 23 S, D    | 49 S, I, D | D - 5    |
| 300                                        | 13 D                                 | 30 S, I, D | 50 S, I, D | D - 6    |
| 400                                        | 14 S,D                               | 38 S       | GW - 1     |          |
| @ t = 250 min.                             | 15 D                                 | 39 S       | D - 1      |          |
|                                            | 10 S, D                              | 28 S, I, D | 32 D       | K - 2    |
|                                            | 24 S, D                              | 29 S, I, D | 34 D       | M - 2    |
|                                            | 25 S, D                              | 31 S, I, D | 35 D       | USGS - 2 |
| @ t = 500 min.                             | All Wells Without Transducers        |            |            |          |
| @ t = 12 hours                             | Water Levels Measured @ t = 24 hours |            |            |          |



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**TABLE 2-5  
MEASUREMENT INTERVALS AT WELLS  
MONITORED MANUALLY: PHASE IVA (t=0 to 12 hours)**

| Approximate<br>Time from Start<br>of Phase | Wells                         |            |            |          |
|--------------------------------------------|-------------------------------|------------|------------|----------|
| @ t = 0 min.                               | All Wells Without Transducers |            |            |          |
| @ t = 20 min.                              | 8 S, I, D                     | 21 S, D    | 49 S, I, D | D - 4    |
| 40                                         | 13 D                          | 23 S, D    | 50 S, I, D | D - 5    |
| 60                                         | 14 S,D                        | 30 S, I, D | GW - 1     | D - 6    |
| 80                                         | 15 D                          | 46 S, D    | D - 1      | 24 S, D  |
| 100                                        |                               |            |            |          |
| @ t = 100 min.                             | 5                             | 29 S, I, D | 35 D       | M - 2    |
|                                            | 10S,D                         | 31S,I,D    | 38S        | USGS-2   |
|                                            | 25 S, D                       | 32 D       | 39 S       |          |
|                                            | 28 S, I, D                    | 34 D       | K - 2      |          |
| @ t = 100 min.                             | 5                             | 21 S, D    | 46 S, D    | D - 4    |
| 200                                        | 8 S, I, D                     | 23 S, D    | 49 S, I, D | D - 5    |
| 300                                        | 13 D                          | 30 S, I, D | 50 S, I, D | D - 6    |
| 400                                        | 14 S,D                        | 38 S       | GW - 1     |          |
|                                            | 15 D                          | 39 S       | D - 1      |          |
| @ t = 250 min.                             | 10 S, D                       | 28 S, I, D | 32 D       | K - 2    |
|                                            | 24 S, D                       | 29 S, I, D | 34 D       | M - 2    |
|                                            | 25 S, D                       | 31 S, I, D | 35 D       | USGS - 2 |
| @ t = 500 min.                             | All Wells Without Transducers |            |            |          |
| @ t = 12 hours                             | All Wells Without Transducers |            |            |          |

The K-1 pumping rate was increased from 525 to 558 gpm at 9:00 a.m. August 14, initiating Phase IVB after it was determined by MPI and City of Fulton representatives that a higher pumping rate at K-1 was advantageous. Wells without transducers were measured on a less intensive schedule than during previous phase start-ups. As indicated in Table 2-6, water levels were collected prior to  $t=0$ , at approximately  $t=250$  minutes and at approximately  $t=500$  minutes. During the next 48 hours, the pumping rate decreased to approximately 550 gpm due to the reduced head in the pumping well; K-1 was maintained at approximately 555 gpm throughout the remainder of the pumping test. Water levels were measured two to three times daily August 15 through August 18.

On August 17, Water Works personnel began an annual cleaning and flushing of city fire hydrants, two of which are located near K-1 as shown on Figure 1-1. The third hydrant is located across Route 57 from M-2/K-2. During the cleaning process, an unknown amount of water was discharged from the hydrants onto the ground, forming large ponded areas in the vicinity of the K-1 well field, and resulting in significant recharge to the aquifer.

Transducers were removed from the wells surrounding K-1 on August 18, cleaned and installed in wells surrounding K-2 and M-2.

## **2.6 PHASE V**

---

The K-2/M-2 system was restarted August 19 at 8:00 a.m. K-2 and M-2 were turned on at a combined pumping rate of about 115 gpm; after about 24 hours, the reduced head in M-2 necessitated a reduction in the pumping rate by 10 gpm. K-2/M-2 continued at 105 gpm for the remainder of the test; K-1 was maintained at 555 gpm from August 14 through the end of the pumping test. Wells were monitored as shown in Table 2-7. Water levels at all wells were measured three times on August 20, twice on August 21, and once on August 22. The transducers were removed from the wells August 21.

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**TABLE 2-6  
MEASUREMENT INTERVALS AT WELLS  
MONITORED MANUALLY: PHASE IVB (t=0 to 12 hours)**

| <b>Approximate<br/>Time from Start<br/>of Phase</b> | <b>Wells</b>                              |
|-----------------------------------------------------|-------------------------------------------|
| <b>@ t = 0 min.</b>                                 | <b>All Wells Without Transducers</b>      |
|                                                     |                                           |
|                                                     |                                           |
| <b>@ t = 250 min.</b>                               | <b>All Wells Without Transducers</b>      |
| <b>@ t = 500 min.</b>                               | <b>All Wells Without Transducers</b>      |
| <b>@ t = 12 hours</b>                               | <b>Water Levels Measured @ t=24 hours</b> |

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**TABLE 2-7  
MEASUREMENT INTERVALS AT WELLS  
MONITORED MANUALLY: PHASE V (t=0 to 12 hours)**

| Approximate<br>Time from Start<br>of Phase | Wells                         |          |         |            |
|--------------------------------------------|-------------------------------|----------|---------|------------|
| @ t = 0 min.                               | All Wells Without Transducers |          |         |            |
| @ t = 20 min.                              | 8 S, I, D                     | 15 D     | 25 S, D | 49 S, I, D |
| 40                                         | 10 S, D                       | 21 S, D  | 32 D    | 50 S, I, D |
| 60                                         | 13 D                          | 23 S, D  | 34 D    |            |
| 80                                         | 14 S, D                       | 24 S, D  | 35 D    |            |
| 100                                        |                               |          |         |            |
| @ t = 100 min.                             | 5                             | 38 S     | 39 S    |            |
| @ t = 100 min.                             | 8 S, I, D                     | 15 D     | 25 S, D | 49 S, I, D |
| 200                                        | 10 S, D                       | 21 S, D  | 32 D    | 50 S, I, D |
| 300                                        | 13 D                          | 23 S, D  | 34 D    |            |
| 400                                        | 14 S, D                       | 24 S, D  | 35 D    |            |
| @ t = 250 min.                             | 42 S                          | K - 1    | GW - 4  | D - 5      |
|                                            | 43 S, D                       | M - 1    | D - 1   | D - 6      |
|                                            | 44 S                          | USGS - 1 | D - 2   | D - 7      |
|                                            | 45 S, D                       | GW - 1   | D - 3   |            |
|                                            | 57 S, D                       | GW - 2   | D - 4   |            |
| @ t = 500 min.                             | All Wells Without Transducers |          |         |            |
| @ t = 12 hours                             | All Wells Without Transducers |          |         |            |

## 3.0 OBSERVATIONS

### 3.1 RAINFALL

---

Rainfall at the Water Works Facility is recorded hourly from 7:00 a.m. until 10:00 p.m. each day. Daily totals recorded during the pumping test are presented in Table 3-1. Changes which may be due to short-term rainfall and/or long-term seasonal trends can be observed at wells outside the area of the pumping test; changes in these wells are not affected by any pumping within the aquifer. Three of the wells monitored during the pumping test, MW-5, MW-38S, and MW-39S, are located near the Miller Container Plant and beyond the influence of any pumping wells. These wells are considered "background" wells, and are used to correct for rainfall events and water table trends. Changes at the background wells over a specified time period have been averaged, then used to adjust the changes observed over the same period at the other wells monitored. For example, evaluating the corrected water level changes aids in distinguishing between recovery resulting from reduced pumping, and recovery due to precipitation recharging the aquifer. (These corrections have been used for figures in Section 4.0 which illustrate drawdown in the shallow water table zone, and in the deeper zone; figures representing water table elevations and potentiometric surface elevations have been generated from actual measured water levels.)

### 3.2 OSWEGO RIVER

---

The Oswego River is located within 200 feet of K-2 and M-2, and within 300 feet of K-1 (See Figure 1-1). Approximately one mile down river (northwest) is Lock 0-2, operated by the NYSDOT Canal and Waterways Management. Due to the lock, the river elevation above the lock is maintained at an elevation of approximately 354 feet above Mean Sea Level (famsl); the elevation of the river below the lock ranges between 335 and 338 famsl. Oswego River elevations, measured three times daily by NYSDOT personnel at Lock 0-2, are presented in Table 3-2. The river elevation near the Fulton Water Works Facility, above the lock, is maintained at about four feet above land surface and is contained by an earthen berm.

# MILLER CONTAINER MUNICIPAL AQUIFER STUDY

## TABLE 3-1 RAINFALL DATA

(Source: City of Fulton Municipal Water Works)

| Date     | Rainfall*<br>(inches) | Pumping Test<br>Phases |       |
|----------|-----------------------|------------------------|-------|
| July 24  | ---                   | Premonitoring          |       |
| 25       | ---                   |                        |       |
| 26       | 0.09                  |                        |       |
| 27       | ---                   |                        |       |
| 28       | ---                   |                        |       |
| 29       | 0.15                  |                        |       |
| 30       | ---                   |                        |       |
| 31       | 1.84                  |                        |       |
| August 1 | 0.12                  |                        |       |
| 2        | ---                   |                        |       |
| 3        | 1.30                  | Phase I start          | 08:00 |
| 4        | 0.87                  |                        |       |
| 5        | 0.01                  |                        |       |
| 6        | ---                   | Phase II start         | 08:10 |
| 7        | ---                   | Phase IIIA start       | 12:15 |
| 8        | 0.41                  |                        |       |
| 9        | 0.04                  |                        |       |
| 10       | ---                   | Phase IIIB start       | 08:45 |
| 11       | 0.39                  |                        |       |
| 12       | ---                   |                        |       |
| 13       | 0.24                  | Phase IVA start        | 07:45 |
| 14       | ---                   | Phase IVB start        | 09:00 |
| 15       | ---                   |                        |       |
| 16       | 0.04                  |                        |       |
| 17       | ---                   |                        |       |
| 18       | 0.05                  |                        |       |
| 19       | 0.09                  | Phase V start          | 08:00 |
| 20       | ---                   |                        |       |
| 21       | ---                   |                        |       |
| 22       | ---                   |                        |       |

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\*Totals represent summation of rainfall measured hourly between 07:00 and 22:00 each day.

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**TABLE 3-2  
OSWEGO RIVER ELEVATIONS  
RECORDED AT LOCK 0-2, REGION 3, SECTION 5, FULTON, NY  
(Source: NYSDOT Waterways Management)**

| DATE    | WATER ELEVATION (FEET ABOVE MEAN SEA LEVEL) |         |        |  |            |         |        |
|---------|---------------------------------------------|---------|--------|--|------------|---------|--------|
|         | ABOVE LOCK                                  |         |        |  | BELOW LOCK |         |        |
|         | 9 A.M.                                      | 12 NOON | 6 P.M. |  | 9 A.M.     | 12 NOON | 6 P.M. |
| 7/29/92 | 353.9                                       | 354.0   | 354.0  |  | 336.3      | 336.8   | 335.7  |
| 7/30/92 | 354.0                                       | 354.1   | 354.1  |  | 335.8      | 335.7   | 335.7  |
| 7/31/92 | 354.0                                       | 354.3   | 354.4  |  | 335.8      | 335.6   | 335.7  |
| 8/01/92 | 354.3                                       | 354.4   | 354.3  |  | 337.0      | 337.0   | 337.3  |
| 8/02/92 | 354.3                                       | 354.4   | 354.2  |  | 337.3      | 337.0   | 337.8  |
| 8/03/92 | 354.3                                       | 354.5   | 354.3  |  | 337.0      | 337.0   | 337.1  |
| 8/04/92 | 354.2                                       | 354.3   | 354.1  |  | 338.3      | 338.3   | 338.3  |
| 8/05/92 | 354.2                                       | 354.2   | 354.1  |  | 338.3      | 338.3   | 338.3  |
| 8/06/92 | 354.1                                       | 354.3   | 354.0  |  | 338.2      | 338.1   | 338.2  |
| 8/07/92 | 354.1                                       | 354.0   | 354.2  |  | 338.0      | 338.0   | 337.8  |
| 8/08/92 | 354.0                                       | 354.0   | 354.2  |  | 337.9      | 337.9   | 337.8  |
| 8/09/92 | 354.1                                       | 354.3   | 354.3  |  | 337.6      | 337.6   | 337.7  |
| 8/10/92 | 353.9                                       | 354.2   | 354.1  |  | 337.3      | 337.5   | 337.5  |
| 8/11/92 | 353.9                                       | 353.9   | 354.2  |  | 337.5      | 337.3   | 336.8  |
| 8/12/92 | 354.2                                       | 354.3   | 354.3  |  | 336.8      | 337.0   | 336.7  |
| 8/13/92 | 354.3                                       | 354.1   | 354.3  |  | 336.8      | 336.5   | 335.9  |
| 8/14/92 | 354.1                                       | 354.2   | 354.0  |  | 336.0      | 336.9   | 336.3  |
| 8/15/92 | 354.1                                       | 354.2   | 354.0  |  | 335.4      | 335.8   | 335.9  |
| 8/16/92 | 354.0                                       | 354.0   | 354.2  |  | 335.8      | 335.8   | 335.7  |
| 8/17/92 | 354.0                                       | 354.0   | 354.0  |  | 335.8      | 335.7   | 335.6  |
| 8/18/92 | 354.1                                       | 354.2   | 354.3  |  | 335.6      | 335.1   | 335.2  |
| 8/19/92 | 354.3                                       | 354.4   | 354.3  |  | 335.6      | 335.3   | 335.7  |
| 8/20/92 | 354.3                                       | 354.2   | 354.3  |  | 335.7      | 335.7   | 335.7  |
| 8/21/92 | 354.2                                       | 354.3   | 354.2  |  | 335.5      | 335.5   | 335.5  |
| 8/22/92 | 354.5                                       | 354.5   | 354.2  |  | 335.6      | 335.5   | 335.6  |
| 8/23/92 | 354.2                                       | 354.3   | 354.2  |  | 336.0      | 336.0   | 335.4  |
| 8/24/92 | 354.3                                       | 354.2   | 354.2  |  | 336.0      | 335.8   | 335.8  |
| 8/25/92 | 354.1                                       | 354.1   | 354.1  |  | 335.9      | 335.9   | 336.0  |
| 8/26/92 | 354.1                                       | 354.2   | 354.0  |  | 335.8      | 335.8   | 335.7  |
| 8/27/92 | 354.0                                       | 354.2   | 354.2  |  | 335.5      | 335.5   | 335.4  |
| 8/28/92 | 354.3                                       | 354.3   | 354.4  |  | 336.3      | 335.9   | 335.8  |
| 8/29/92 | 354.5                                       | 354.4   | 354.3  |  | 336.5      | 336.4   | 336.6  |
| 8/30/92 | 354.5                                       | 354.5   | 354.1  |  | 337.1      | 336.9   | 337.0  |
| 8/31/92 | 354.2                                       | 354.3   | 354.2  |  | 336.7      | 336.8   | 336.8  |



The elevated river level creates a steep water table gradient between the river and the municipal well field. Influences of the river as they relate to pumping regimens and recharge of the aquifer will be discussed further in Section 4.0.

### 3.3 PUMPING WELLS

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There is a general lack of detailed information describing the construction of the municipal pumping wells. Kellar Well Nos. 1 (K-1) and 2 (K-2) are described in Table 1-1 as "open bottom wells"; both have diameters of 20 feet and extend to depths of about 23-24 feet below land surface. Municipal Well No. 2 (M-2) is about three feet in diameter and extends to a depth of approximately 37 feet below land surface. M-2 is reportedly screened intermittently from land surface to the bottom of the well.

K-1 is equipped with two submersible pumps which pump from the bottom of the well; the pumps are manifolded together and water is piped below ground to the holding tank in the treatment facility. The combined maximum pumping rate of the two pumps in K-1 had been estimated to be about 576 gpm; however, during Phase IVB of the pumping test, the K-1 system dropped from a maximum rate of 558 gpm to 550 gpm, then stabilized at 555 gpm for the remainder of the pumping test. K-1 had been operating at 510 gpm and 535 gpm prior to the test.

K-2 and M-2 are each equipped with one submersible pump which pumps water below ground to the holding tank in the treatment facility building. The combined maximum flow from the K-2/M-2 system was determined through Phase V of the pumping test to be about 105 gpm, following stabilization within the pumping wells. The maximum rate is the combined result of the pump size in K-2, which limits the withdrawal of water, and the inefficiency of the M-2 well design, which results in the lowering of the water level to below the pump intake at rates in excess of about 60 gpm. K-2 was maintained at the initial flow rate of 46 gpm for the remainder of the test. M-2 was initially set at 70 gpm; however, after three hours, the water level had decreased by more than 27 feet in M-2, resulting in a lower yield (due to the head loss in the well) and air entering the pump. The set point for M-2 was reduced to 60 gpm. A flow rate of 57 gpm was maintained throughout the last three days of the pumping test.

### 3.4 DURATION OF THE PUMPING TEST

---

The K-1, K-2 and M-2 pumping test lasted about three weeks, during which the two pumping systems were operated at various flow rates. A manageable time frame for the test imposed certain limitations in the data collected. Because several phases were necessary to illustrate the various influences of the K-1 and K-2/M-2 pumping systems on surrounding wells, the phases often were terminated prior to the attainment of stabilized water levels.

The K-2/M-2 system remained off for 16 days, allowing a substantial period for water levels in that area to recover; however, during that time it was observed that the influence of the K-1 system does extend to the K-2/M-2 area when those wells are not pumping. K-1 was shut down not longer than four days, primarily due to the potential for seepage into the Water Works building basement as the water table became elevated. In addition, intermittent pumping of K-1 occurred within that time period, necessitated by the high chlorine residuals in K-1 and the downstream treatment facility holding tank. Water levels in the vicinity of K-1 had recovered significantly by the start of Phase IIIB, but had not reached stabilization. Data generated through this and other phases of the pumping test provide useful information in the evaluation of the aquifer characteristics and the influences of the pumping wells; however, it is important that constraints like the inability to leave K-1 off for a sufficient time period are recognized and considered throughout the data evaluation process.

## 4.0 RESULTS AND DATA INTERPRETATION

Ground water elevations at all wells have been determined from the water level data recorded during the pumping test and are represented as hydrographs in Appendix C. Although several circumstances prevented ideal conditions during the pumping test, the data base generated provides significant indications as to the respective influences of the K-1 and K-2/M-2 pumping systems, and the effect of the Oswego River; the general characteristics of the aquifer; and localized conditions which may affect the potential for future contaminant migration into the municipal wells.

### 4.1 K-2/M-2 INFLUENCE

---

Water levels in the twelve wells immediately surrounding K-2 and M-2 recovered an average of 1.66 feet (corrected to background) during Phase I (August 3 to August 6). As discussed in Section 3.1, drawdown and recovery values have been corrected based on the average change at the background wells for the same time period. The water table and deeper screen well potentiometric surface maps generated from August 6 data are shown as Figures 4-1 and 4-2, respectively. These may be compared with Figures 4-3 and 4-4 which show the water table and deeper screen well potentiometric surface maps from August 1, prior to the start of the pumping test. Figures 4-3 and 4-4 represent ground water conditions presumed to be stabilized with the K-1 and K-2/M-2 systems pumping at near optimum discharge rates. (Ground water elevations shown on the figures are generated from measured water levels. The elevations have not been corrected to background; only recovery and drawdown values have been corrected.)

In all twelve wells around K-2/M-2, except at MW-31S, the water level rise in the shallow wells was slightly greater than in the adjacent intermediate or deep wells in each cluster. The response at MW-10D, however, was twice that observed at shallow well MW-10S (0.90 vs 0.45 foot, respectively). The greater response at MW-10D is consistent with observations made during the April 1987 pumping test conducted by the NYSDEC at M-2 when a faster and more significant response was observed at MW-10D than at MW-10S.

## 5.0 AQUIFER CHARACTERISTICS

Evaluation of the potential for contaminant migration from the K-2/M-2 vicinity to K-1 requires the examination of pumping well influences and aquifer characteristics such as transmissivity and the coefficient of storage, or storativity. The relative and combined influence of the K-1 and K-2/M-2 systems has been discussed in Section 4.0. Transmissivity (T) and storativity (S) of the municipal aquifer are estimated in this section using various methods.

Transmissivity is the product of the hydraulic conductivity ( $K_h$ ) and the saturated thickness of the aquifer, or  $T = K_h b$ . Hydraulic conductivity values measured at the 12 wells immediately surrounding K-2/M-2 average  $4 \times 10^{-2}$  cm/sec, or 113 ft/day; the average aquifer thickness in the area is 60 feet, yielding an average transmissivity value of 6780 ft<sup>2</sup>/day in the area immediately surrounding K-2/M-2. If the area of influence is extended to include MW-10S,D and MW-46S,D, the average  $K_h$  is  $3 \times 10^{-2}$  cm/sec, or 85 ft/day, and the average transmissivity of the extended area is estimated at 5100 ft<sup>2</sup>/day.

In the vicinity of K-1, monitoring wells located southeast of K-1 (MW-23S,D; MW-46S,D; and MW-44S), southwest of K-1 (MW-43S,D), northwest of K-1 (MW-42S; MW-45S,D), and northeast of K-1 (MW-57S,D) yield an overall average transmissivity of 1403 ft<sup>2</sup>/day, using this simplified method of estimating T. If average values of T are calculated only for wells located in the region of the elongated axis of the cone of depression, i.e., wells located southeast and northwest of K-1, the average transmissivity is estimated at 4465 ft<sup>2</sup>/day; the average transmissivity for wells located southwest and northeast of K-1 (in the region of the shorter axis of the cone of depression) is 44 ft<sup>2</sup>/day. The relative difference in these values is consistent with the drawdown observed at the end of Phase I, when water levels had essentially stabilized with K-2/M-2 off and K-1 operating at a near-optimum discharge rate. The tighter, steeper axis of the drawdown cone extending northeast and southwest of K-1 is typical of lower aquifer transmissivity, whereas higher aquifer transmissivity results in shallower cones of wider extent, such as that observed northwest and southeast of K-1. (See Figures 4-1 and 4-8). Also, the gradient of the drawdown cone is steeper on the southwest side of K-1, between K-1 and the Oswego River, than on the northwest side. This is the result of the River acting as a recharge boundary

for K-1. As the River elevation is artificially maintained by the lock system, there is no drawdown of the River and therefore no need for using a recharge image well.

The approximation of transmissivity from the equation  $T = K_b b$  gives averaged values based on the hydraulic conductivity measured at each well. This method does not take into account the varying nature of the aquifer above and below the screens of partially penetrating wells, or between the individual wells, and it does not account for large diameter pumping wells. The effect of the large diameter pumping wells K-1 and K-2 is that the time lag between changes in the pumping regimen at K-1 and K-2 and observed changes in the monitoring wells would be longer since storage in the pumping wells would delay drawdown. The estimation of aquifer transmissivity will tend to be lower with large diameter pumping wells. Also, the effect of storage in the large diameter pumping wells (K-1 and K-2) on nearby observation wells would tend to be greater in the K-1 area because M-2 also withdraws water from the K-2/M-2 area and the diameter of M-2 is relatively small compared to K-1 and K-2. Therefore, the spread between the actual and estimated transmissivity values would be greater in the K-1 area.

Aquifer transmissivity and storativity were approximated from the drawdown data from several observation wells by the straight line method developed by Cooper and Jacob (1946). Time-drawdown data were plotted on semi-log graph paper and estimated values of  $T$  and  $S$  were calculated. The semi-log plots are contained in Appendix D and the estimated values are presented in Table 5-1. Data from selected wells during various phases of the pumping test yielded average transmissivity values of 14,702 ft<sup>2</sup>/day in the K-1 area, and 3,447 ft<sup>2</sup>/day in the K-2/M-2 area using the Cooper/Jacob method. The average  $T$  calculated from some of the deep screen wells in the K-2/M-2 area is slightly less, at 3,185 ft<sup>2</sup>/day than 3,773 ft<sup>2</sup>/day calculated from some of the shallow screen wells. The fluctuation in the graph of drawdown versus time observed at MW-30D (see Appendix D, MW-30D) may be the result of the reestablishment of a vertical flow component in the MW-30S,I,D area or it may be due to the intersection of a highly permeable unit in the MW-30D well screen area. Two straight lines have been drawn on the Cooper/Jacob plot of MW-30D data, yielding two  $T$  values and two  $S$  values which are incorporated into the average values.

Coefficient of storage, or storativity ( $S$ ) values estimated for the K-2/M-2 area range from 0.006 in the MW-46S,D area to 0.144 in the MW-30D area and average 0.049. The units of storativity are dimensionless. Cooper/Jacob approximations for  $S$  in the K-1 area range from 0.027 (from MW-44S data) to 0.293 (from MW-57S data), and average 0.094.

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**TABLE 5-1**

**TRANSMISSIVITY AND STORATIVITY  
(Cooper and Jacob Method)**

| Well       | Phase | Estimated<br>Transmissivity, T<br>(ft <sup>2</sup> /min) | Estimated<br>Transmissivity, T<br>(ft <sup>2</sup> /day) | Estimated<br>Storativity, S<br>(dimensionless) |
|------------|-------|----------------------------------------------------------|----------------------------------------------------------|------------------------------------------------|
| MW-10S     | V     | 3.33                                                     | 4,795                                                    | 0.049                                          |
| MW-10D     | V     | 2.65                                                     | 3,816                                                    | 0.015                                          |
| MW-28D     | V     | 1.98                                                     | 2,851                                                    | 0.064                                          |
| MW-30S     | V     | 2.03                                                     | 2,923                                                    | 0.091                                          |
| MW-30I     | V     | 2.41                                                     | 3,470                                                    | 0.061                                          |
| MW-30D (a) | V     | 2.08                                                     | 2,995                                                    | 0.144                                          |
| MW-30D (b) | V     | 1.40                                                     | 2,016                                                    | 0.039                                          |
| MW-46S     | V     | 2.95                                                     | 4,248                                                    | 0.006                                          |
| MW-46D     | V     | 2.95                                                     | 4,248                                                    | 0.006                                          |
| USGS-2     | V     | 2.16                                                     | 3,110                                                    | 0.017                                          |
| MW-43S     | IIIB  | 6.97                                                     | 10,037                                                   | 0.033                                          |
|            | IVA   | 10.90                                                    | 15,696                                                   | 0.111                                          |
| MW-43D     | IVA   | 9.97                                                     | 14,357                                                   | 0.096                                          |
| MW-44S     | IIIB  | 6.74                                                     | 9,706                                                    | 0.027                                          |
|            | IVA   | 13.40                                                    | 19,296                                                   | 0.185                                          |
|            | IVB   | 14.02                                                    | 20,189                                                   | 0.849                                          |
| MW-45S     | IVA   | 10.13                                                    | 14,587                                                   | 0.034                                          |
|            | IVB   | 9.06                                                     | 13,046                                                   | 0.113                                          |
| MW-45D     | IVA   | 11.38                                                    | 16,387                                                   | 0.028                                          |
|            | IVB   | 11.05                                                    | 15,912                                                   | 0.104                                          |
| MW-57S     | IIIB  | 8.08                                                     | 11,635                                                   | 0.088                                          |
|            | IVA   | 11.38                                                    | 16,387                                                   | 0.293                                          |
| MW-57D     | IIIB  | 8.25                                                     | 11,880                                                   | 0.030                                          |
|            | IVA   | 12.25                                                    | 17,640                                                   | 0.142                                          |
| D-3        | IVA   | 9.60                                                     | 13,824                                                   | 0.028                                          |



Data from MW-44S, during Phase IVB, yielded an anomalous S value of 0.849 which is not incorporated into the average S estimated for the K-1 area. The estimates of storativity for both the K-1 and K-2/M-2 areas, by using the Cooper/Jacob method, indicate unconfined aquifer conditions, since the values predominantly fall in the range of 0.01 to 0.30, typical of an unconfined aquifer. Relatively higher transmissivity values in the K-1 area may be due in part to the increased development of the aquifer as fine grained material is removed due to the higher pumping rates typical at K-1.

Drawdown data from many of the observation wells were incorporated into the Aqtesolv program and analyzed by the Theis solution for unconfined conditions. The data have been plotted and automatically matched to a type-curve and values of T and S were generated. The results of the Theis solutions are presented in Table 5-2 and the log-log plots are contained in Appendix E. Values estimated for the K-2/M-2 area were generated from Phase V data from the 12 wells surrounding K-2 and M-2, and USGS-2. Values estimated for the K-1 area are from Phase IVA data from MW-43S,D; MW-44S; MW-45S,D; MW-57S,D; D-2; D-3; and D-7.

Transmissivity values approximated by the Theis method average 17,784 ft<sup>2</sup>/day for the area surrounding K-1. T values estimated from wells along the elongated axis of the cone of depression around K-1 are slightly higher than those estimated from wells along the shorter axis (17,899 ft<sup>2</sup>/day versus 15,869 ft<sup>2</sup>/day). Although the Theis-generated T averages overall are much higher than those estimated by  $T = K_h b$ , they are consistent with the relative differences indicated by the asymmetric drawdown cone (see Figures 4-1 and 4-8) and, as indicated earlier, the storage in K-1 probably has a significant impact on the T values estimated by these methods. Generally, the T values in the K-1 area approximated by the Theis solution are slightly higher than those approximated by the Cooper/Jacob method but are within the same range. Storativity values estimated by the Theis solution average 0.111 in the K-1 area, similar to that estimated by the Cooper/Jacob method, and are still within the range typical for unconfined aquifers.

In the K-2/M-2 area, the Theis solution generated transmissivity values averaging 7,034 ft<sup>2</sup>/day, and storativity values averaging 0.153. The Theis transmissivity and storativity values are somewhat higher than those estimated by the Cooper/Jacob method, but similar to the transmissivity values approximated by the equation  $T = K_h b$ .



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**TABLE 5-2**

**TRANSMISSIVITY AND STORATIVITY  
(Theis Solution, using AQTESOLV)**

| Well   | Phase | Estimated<br>Transmissivity, T<br>(ft <sup>2</sup> /min) | Estimated<br>Transmissivity, T<br>(ft <sup>2</sup> /day) | Estimated<br>Storativity, S<br>(dimensionless) |
|--------|-------|----------------------------------------------------------|----------------------------------------------------------|------------------------------------------------|
| MW-28S | V     | 4.54                                                     | 6,530                                                    | 0.159                                          |
| MW-28I | V     | 4.67                                                     | 6,731                                                    | 0.147                                          |
| MW-28D | V     | 4.43                                                     | 6,372                                                    | 0.149                                          |
| MW-29S | V     | 4.43                                                     | 6,382                                                    | 0.140                                          |
| MW-29I | V     | 4.83                                                     | 6,952                                                    | ***                                            |
| MW-29D | V     | 5.07                                                     | 7,296                                                    | ***                                            |
| MW-30S | V     | 4.46                                                     | 6,420                                                    | 0.180                                          |
| MW-30I | V     | 5.04                                                     | 7,260                                                    | 0.129                                          |
| MW-30D | V     | 5.74                                                     | 8,264                                                    | 0.162                                          |
| MW-31S | V     | 5.72                                                     | 8,231                                                    | ***                                            |
| MW-31I | V     | 4.82                                                     | 6,945                                                    | ***                                            |
| MW-31D | V     | 5.04                                                     | 7,263                                                    | 0.279                                          |
| USGS-2 | V     | 4.72                                                     | 6,791                                                    | 0.036                                          |
| MW-43S | IVA   | 10.69                                                    | 15,394                                                   | 0.125                                          |
| MW-43D | IVA   | 11.75                                                    | 16,920                                                   | 0.075                                          |
| MW-44S | IVA   | 11.80                                                    | 16,992                                                   | 0.138                                          |
| MW-45S | IVA   | 12.98                                                    | 18,691                                                   | 0.030                                          |
| MW-45D | IVA   | 13.54                                                    | 19,498                                                   | 0.227                                          |
| MW-57S | IVA   | 11.35                                                    | 16,344                                                   | 0.234                                          |
| MW-57D | IVA   | 13.98                                                    | 20,131                                                   | 0.087                                          |
| D-2    | IVA   | 14.37                                                    | 20,693                                                   | 0.110                                          |
| D-3    | IVA   | 11.85                                                    | 17,064                                                   | 0.021                                          |
| D-7    | IVA   | 11.15                                                    | 16,056                                                   | 0.059                                          |

F:\PROJ\1028151\1P-TST\DATA\TAB5\_2.WK1

NOTES: \*\*\* indicates a default within the AQTESOLV program.

## 6.0 CONCLUSIONS

In meeting the requirements of Section XIV of Order on Consent #A702659106, MPI has, on behalf of Miller Container, conducted the municipal aquifer pumping test described in this report. Information generated prior to and through the performance of the pumping test includes:

- The locations and depths of all test wells and observation wells on the Fulton Water Works property.
- Observations regarding the relative and combined influence of the K-1 and K-2/M-2 systems.
- The influence of potential boundary conditions (e.g., the Oswego River).
- An evaluation of the potential for contamination in the vicinity of K-2/M-2 to reach K-1.
- Estimates of aquifer storativity and transmissivity in the vicinity of the active municipal wells on the Water Works property.

Aquifer transmissivity and storativity have been estimated for the K-1 area and the K-2/M-2 area. The K-1 area exhibited overall higher transmissivity estimates, as compared to those approximated for the K-2/M-2 area. Also, the transmissivity values estimated in the K-1 area are consistent with the ellipsoidal shape of the drawdown cone, with higher T values occurring along the elongated axes of the cone. Storativity values estimated for both the K-1 and K-2/M-2 areas are typical of unconfined aquifer conditions.

Several incidents occurred during the pumping test that were beyond our control and resulted in a longer data collection process. The data collection process was longer since we had hoped to achieve stabilized water level conditions at the end of each phase of the pumping test and these incidents prevented equilibrated water levels from occurring. These incidents included changes in the pumping rates at K-1 and M-2 during the premonitoring period; intermittent pumping at K-1 during Phase IIIA necessitated by the high chlorine residuals in the system; the power failure causing K-1 to shutdown during Phase IIIB; aquifer recharge resulting from an unknown quantity of water discharged from the City's fire hydrants; the incorporation of two phases within Phase IV, resulting in less time for the

establishment of equilibrium; the constraint imposed by the potential for seepage to occur into the Water Works building when the K-1 pumps are off for more than a few days; and scheduling constraints which limited the duration of individual phases as well as the entire pumping test. These incidents also complicated the data evaluation process since obtaining stabilized water level data would have made our assessment of the aquifer under various stresses easier. For example, the intermittent pumping during Phase IIIA interfered with the stabilization process, delayed the start of the next phase by three days, and generated unusable data during those three days; the power failure during Phase IIIB and the fire hydrant purging during Phase IVB both resulted in recovery data which had to be distinguished from drawdown data in the overall assessment of these drawdown phases. Although we were forced to evaluate more segments of analytical data than originally planned, we feel that the data were adequate in terms of evaluating the potential for identified contamination in the vicinity of K-2/M-2 to reach K-1.

Upon examination of the drawdown and recovery which occurred during various phases of the pumping test, and the resulting water table and potentiometric surface maps generated, several conclusions can be drawn based on the different pumping regimens implemented:

1. Under non-pumping conditions (K-1 off and K-2/M-2 off):
  - Ground water flow is west from the Miller Container site, towards the Oswego River, then trends northwest in the direction of the River flow. As the River is maintained at a higher elevation than that of the surrounding water table, ground water tends to move along this boundary.
  - Ground water contamination found on the Miller Container site would eventually reach the Water Works property, though it would be at a slow rate. The average rate of ground water movement is 1/4 (shallow zone) to 1/2 (deep zone) of that estimated when K-1 and/or K-2/M-2 are operating. The rate of contaminant migration due to advection, the component of solute transportation attributed to the bulk motion of flowing ground water, may be implied from estimates of average linear velocity; however, these are estimates of ground water movement only and do not take into account the effects of dispersion on the rate of contaminant transport.
  - Ground water contamination observed in the vicinity of K-2/M-2 would move toward K-1, though this also would be at a relatively slow rate. Shallow zone estimates of ground water seepage velocity are 1/4 that estimated during pumping at K-1 only, and 1/2 that estimated during typical pumping conditions. Seepage velocities approximated within the

deep zone are 1/3 that estimated when K-1 only is pumping, and 2/3 that estimated when both systems are operating.

2. Pumping at K-1 only (K-2/M-2 off):

- Results in shallow and deep zone drawdown in the K-2/M-2 area, indicating that the cone of influence of K-1 does include the K-2/M-2 area.
- Does not cause shallow or deep zone drawdown at wells located on the Taylor property, or at wells located on the Miller Container property except for MW-23S,D.
- Accelerates the rate of ground water movement from the K-2/M-2 area to the K-1 area, and therefore potentially accelerates the rate of contaminant migration due to advective flow. For example, average estimates of seepage velocity from the K-2/M-2 area toward K-1, with pumping occurring at the K-1 system only, are nearly three times higher within the deep zone and four times higher within the shallow zone compared to non-pumping conditions. When compared to typical pumping conditions (i.e., both K-1 and K-2/M-2 on ), estimates of seepage velocity made with only K-1 pumping are nearly two times higher in both the deep and shallow ground water zones.

3. Under typical pumping conditions (K-1 and K-2/M-2 systems operating at optimum rates):

- The K-1 system exerts a greater influence on the aquifer than the pumping from the K-2/M-2 system. This is due primarily to the higher discharge rates typical at K-1 over long periods of time, and due partially to the overall higher transmissivity estimates in the K-1 area compared to those approximated for the K-2/M-2 area.
- The rate of ground water movement from the K-2/M-2 area toward the K-1 area is reduced by a factor of two when K-2 and M-2 are operating. This impedes the rate of contaminant migration and thereby slows the process of contaminant migration from the K-2/M-2 area toward the K-1 area. According to our interpretation of the data, ground water flow and contaminant migration characteristics are described with respect to advective flow only.
- Over 60 percent of the shallow ground water entering K-1 originates at the Oswego River recharge boundary. The amount of water received from the east and northeast directions is estimated at 25 percent while less than five percent is supplied from north and northwest of K-1. The percentage of water originating from the direction of the Miller Container property, southeast of K-1, is only about 10 percent.

- The K-2/M-2 system receives nearly three-quarters (74 percent) of its shallow flow from the River. The amount of water received from areas underlying the Miller Container site to the northeast and east, and the Taylor property to the east-southeast, comprises about 25 percent. A very small amount of flow is contributed to K-2/M-2 from the north.

Contamination detected in monitoring wells located north and northwest of K-1 is within the influence of K-1 under normal pumping conditions. The NYSDEC has installed a ground water recovery system in the vicinity of MW-45S since the performance of this pumping test. The recovery wells were installed to address gasoline-type contaminants which have been detected at this well. The source of this contamination appears to be unrelated to Miller Container site contamination and is currently under investigation by the NYSDEC. Plumes in these areas may eventually reach K-1; however, the apparent mounding condition observed near MW-42S may slow the process of shallow ground water migration from the MW-45S area to K-1. Ground water withdrawal from the aquifer as a result of operation of the NYSDEC recovery system, will create another, smaller cone of depression and alter the configuration of the water table. Recent water level data should be collected by the NYSDEC and made available to us for inclusion in the RI Report. We suggest that updated water table and potentiometric surface maps be generated by the NYSDEC from data collected after the installation of the new NYSDEC system.

The above information, in addition to that gained throughout the performance of this pumping test, will be incorporated into and discussed further in the Remedial Investigation Report.

***APPENDIX A***

***Historical Water Levels***

***1991 and 1992***

## MUNICIPAL AQUIFER - PREMONITORING GROUND WATER ELEVATIONS 1991

|         |        | Miller |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|---------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WELL    |        | 5S     | 8S     | 8I     | 8D    | 10S    | 10D    | 13D    | 14S    | 14D    | 15D    | 21S    | 21D    | 23S    | 23D    | 24S    | 24D    | 25S    | 25D    |
| ELEV    | M.P.   | 377.38 | 368.68 | 368.12 | 368.3 | 364.41 | 363.89 | 365.27 | 380.07 | 380.19 | 369.99 | 379.26 | 379.95 | 366.49 | 366.88 | 363.54 | 363.67 | 365.98 | 368.14 |
| DATE    | TIME   |        |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/15/91 | 2:00P  |        |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/16    | 8:00A  |        |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/16    | 11:00A |        |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/16    | 3:00P  | 367.66 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/17    | 10:30A | 367.62 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/17    | 4:00P  | 367.56 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/18    | 7:30A  | 367.47 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/20    | 8:00A  | 367.18 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/20    | 2:00P  | 367.20 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/21    | 8:30A  | 367.15 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/21    | 4:00P  | 367.12 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/22    | 8:00A  | 367.05 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/22    | 4:00P  | 367.01 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/23    | 8:30A  | 366.93 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/23    | 1:00P  | 366.92 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/24    | 8:30A  | 366.87 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/24    | 3:30P  | 366.85 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/25    | 1:00P  | 366.75 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/28    | 12:00P | 369.04 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/29    | 1:30P  | 369.18 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/30    | 7:00A  | 369.13 |        |        |       | 352.29 | 351.38 | 353.92 |        |        | 354.18 |        |        | 348.90 | 348.78 | 35.32  | 353.19 | 353.12 | 353.13 |
| 5/31    | 7:00A  | 369.11 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/03    | 3:30P  | 368.80 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/04    | 10:00A | 368.56 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/05    | 8:30A  | 368.28 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/06    | 8:00A  | 367.90 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/07    | 8:00A  | 367.82 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/10    | 8:00A  | 367.41 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/12    | 8:00A  | 367.16 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/12    | 1:30P  | 367.17 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/13    | 8:30A  | 367.24 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/13    | 2:30P  | 367.25 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/14    | 8:30A  | 367.37 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/17    | ---    | 367.11 |        |        |       | 352.01 | 351.19 | 353.49 |        |        | 353.73 |        |        | 349.15 | 349.03 | 352.89 | 352.77 | 352.73 | 352.74 |
| 6/18    | 6:00P  | 367.14 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/19    | 5:30P  | 367.11 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/20    | 11:00A | 367.04 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/21    | 8:30A  | 366.97 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/21    | 4:00P  | 366.94 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/22    | 12:00P | 366.82 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/23    | 12:00P | 366.68 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/24    | 8:30A  | 366.58 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/24    | 3:30P  | 366.56 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/25    | 8:00A  | 366.50 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |



## MUNICIPAL AQUIFER - PREMONITORING GROUND WATER ELEVATIONS 1991

|      |        | Miller |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WELL |        | 5S     | 8S     | 8I     | 8D    | 10S    | 10D    | 13D    | 14S    | 14D    | 15D    | 21S    | 21D    | 23S    | 23D    | 24S    | 24D    | 25S    | 25D    |
| ELEV | M.P.   | 377.38 | 368.68 | 368.12 | 368.3 | 364.41 | 363.89 | 365.27 | 380.07 | 380.19 | 369.99 | 379.26 | 379.95 | 366.49 | 366.88 | 363.54 | 363.67 | 365.98 | 368.14 |
| DATE | TIME   |        |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/25 | 3:00P  | 366.48 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/26 | 9:00A  | 366.40 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/27 | 8:00A  | 366.30 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/28 | 9:00A  | 366.23 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/01 | 9:00A  | 365.96 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/02 | 2:30P  | 365.89 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/03 | 9:30A  | 365.80 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/05 | 9:15A  | 365.66 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/08 | 3:00P  | 365.43 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/09 | 4:30P  | 365.30 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/10 | 2:00P  | 365.32 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/11 | 3:30P  | 365.24 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/12 | 2:00P  | 365.18 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/15 | 1:00P  | 364.99 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/16 | 11:30A | 364.94 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/17 | 2:45P  | 364.94 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/17 | 4:10P  | 364.94 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/18 | 8:50A  | 364.88 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/18 | 2:35P  | 364.86 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/19 | 9:00A  | 364.80 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/19 | 5:00P  | 364.81 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/22 | 9:20A  | 364.62 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/23 | 9:00A  | 364.59 |        |        |       | 351.71 | 350.99 | 352.88 |        |        | 353.05 |        |        | 349.74 | 349.67 | 352.46 | 352.37 | 352.31 | 352.32 |
| 7/24 | 9:15A  |        |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/25 | 12:00P | 364.47 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/26 | 10:15A | 364.40 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/29 | 10:10A | 364.30 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/30 | 12:15P | 364.26 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 7/31 | 2:00P  | 364.20 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/1  | 11:00A | 364.19 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/2  | 2:00P  | 364.12 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/5  | 11:00A | 363.98 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/6  | 11:30A | 363.93 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/7  | 10:00A | 363.90 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/8  | 2:30P  | 363.90 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/9  | 12:30P | 363.89 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/12 | 10:30A | 363.81 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/13 | 12:30P | 363.83 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/14 | 10:00A | 363.82 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/15 | ---    | 363.80 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/16 | 10:10A | 363.78 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/19 | 2:15P  | 363.76 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/20 | 10:45A | 363.72 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/21 | 2:20P  | 363.71 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

## MILLER CONTAINER

## MUNICIPAL AQUIFER - PREMONITORING GROUND WATER ELEVATIONS 1991

|             |        | Miller |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WELL        |        | 9S     | 8S     | 8I     | 8D    | 10S    | 10D    | 13D    | 14S    | 14D    | 15D    | 21S    | 21D    | 23S    | 23D    | 24S    | 24D    | 25S    | 25D    |
| ELEV        | M.P.   | 377.38 | 368.68 | 368.12 | 368.3 | 364.41 | 363.89 | 365.27 | 380.07 | 380.19 | 369.99 | 379.26 | 379.95 | 366.49 | 366.88 | 363.54 | 363.67 | 365.98 | 368.14 |
| DATE        | TIME   |        |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/22        | 2:15P  | 363.68 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/23        | 2:20P  | 363.64 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/27        | 9:30A  | 363.59 |        |        |       | 351.29 | 350.65 | 352.42 |        |        | 352.59 |        |        | 349.46 | 349.41 | 351.82 | 352.13 | 351.89 | 351.89 |
| 8/30        | ----   | 363.51 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 9/3         | 11:00A | 363.41 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 9/4         | 1:30P  | 363.40 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 9/6         | 10:00A | 363.33 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 9/13        | 10:00A | 363.18 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 9/20        | 11:00A | 363.12 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 9/23        | ----   | 363.28 |        |        |       | 352.08 | 350.32 | 352.07 |        |        | 352.22 |        |        | 349.19 | 349.53 | 351.68 | 351.59 | 351.55 | 351.55 |
| 9/27        | ----   |        |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10/4        | 1:00P  | 364.04 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10/8        | ----   |        |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10/9        | 10:30A | 364.70 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10/16       | 11:30A | 366.61 |        |        |       |        |        |        |        |        |        |        |        | 349.50 |        |        |        |        |        |
| 10/22       | 1:30P  | 367.57 |        |        |       | 351.45 | 350.74 | 352.67 |        |        | 352.87 |        |        | 349.50 | 349.44 | 352.24 | 352.14 | 352.08 | 352.08 |
| 11/21       | ----   | 369.39 |        |        |       | 351.43 | 350.76 | 352.61 |        |        | 352.79 |        |        | 349.52 | 349.46 | 352.26 | 352.15 | 352.08 | 352.08 |
| 12/2        | 12:00P | 369.64 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 12/11       | 9:30A  | 370.10 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 12/12       | 9:00A  | 369.94 |        |        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 12/16-19/91 | ----   | 369.62 |        |        |       | 352.26 | 351.49 | 353.53 |        |        | 53.74  |        |        | 350.08 | 350.03 | 353.11 | 353.01 | 352.91 | 352.92 |

## MILLER CONTAINER

## MUNICIPAL AQUIFER - PREMONITORING GROUND WATER ELEVATIONS 1991

| WELL    |        | 28S    | 28I    | 28D    | 29S    | 29I    | 29D    | 30S    | 30I    | 30D    | 31S    | 31I    | 31D    | 32D    | 34D    | 35D    | 38S    | 39S    | 42S    |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ELEV    | M.P.   | 356.94 | 357.44 | 357.04 | 355.27 | 355.37 | 355.25 | 354.11 | 354.11 | 354.07 | 355.62 | 355.67 | 356.22 | 381.31 | 385.08 | 381.36 | 373.61 | 372.26 | 354.06 |
| DATE    | TIME   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/15/91 | 2:00P  | 349.92 |        |        |        |        |        | 349.68 |        |        |        |        |        |        |        |        |        | 359.70 | 346.85 |
| 5/16    | 8:00A  | 349.82 |        |        |        |        |        | 349.60 |        |        |        |        |        |        |        |        | 361.11 | 359.68 | 346.66 |
| 5/16    | 11:00A | 349.82 |        |        |        |        |        | 349.60 |        |        |        |        |        |        |        |        | 361.09 | 359.67 | 346.65 |
| 5/16    | 3:00P  | 349.81 |        |        |        |        |        | 349.57 |        |        |        |        |        |        |        |        | 361.07 | 359.67 | 346.60 |
| 5/17    | 10:30A | 349.74 |        |        |        |        |        | 349.53 |        |        |        |        |        |        |        |        | 361.07 | 359.62 | 346.44 |
| 5/17    | 4:00P  | 349.73 |        |        |        |        |        | 349.50 |        |        |        |        |        |        |        |        | 360.93 | 359.58 | 346.38 |
| 5/18    | 7:30A  | 349.66 |        |        |        |        |        | 349.46 |        |        |        |        |        |        |        |        | 360.88 | 359.55 | 346.29 |
| 5/20    | 8:00A  | 349.44 |        |        |        |        |        | 349.19 |        |        |        |        |        |        |        |        | 360.65 | 359.31 | 345.61 |
| 5/20    | 2:00P  | 349.40 |        |        |        |        |        | 349.17 |        |        |        |        |        |        |        |        | 360.73 | 359.36 | 345.56 |
| 5/21    | 8:30A  | 349.34 |        |        |        |        |        | 349.11 |        |        |        |        |        |        |        |        | 360.66 | 359.30 | 345.38 |
| 5/21    | 4:00P  | 349.30 |        |        |        |        |        | 349.07 |        |        |        |        |        |        |        |        | 360.66 | 359.30 | 345.33 |
| 5/22    | 8:00A  | 349.25 |        |        |        |        |        | 349.02 |        |        |        |        |        |        |        |        | 360.60 | 359.24 | 345.14 |
| 5/22    | 4:00P  | 349.23 |        |        |        |        |        | 348.99 |        |        |        |        |        |        |        |        | 360.59 | 359.23 | 345.10 |
| 5/23    | 8:30A  | 349.16 |        |        |        |        |        | 348.93 |        |        |        |        |        |        |        |        | 360.49 | 359.14 | 344.95 |
| 5/23    | 1:00P  | 349.16 |        |        |        |        |        | 348.92 |        |        |        |        |        |        |        |        | 360.51 | 359.15 | 344.93 |
| 5/24    | 8:30A  | 349.24 |        |        |        |        |        | 349.02 |        |        |        |        |        |        |        |        | 360.49 | 359.10 | 344.85 |
| 5/24    | 3:30P  | 349.24 |        |        |        |        |        | 349.02 |        |        |        |        |        |        |        |        | 360.51 | 359.13 | 344.85 |
| 5/25    | 1:00P  | 349.18 |        |        |        |        |        | 348.97 |        |        |        |        |        |        |        |        | 360.33 | 359.00 | 344.93 |
| 5/28    | 12:00P | 349.92 |        |        |        |        |        | 349.71 |        |        |        |        |        |        |        |        | 361.39 | 360.00 | 346.84 |
| 5/29    | 1:30P  | 349.82 |        |        |        |        |        | 349.62 |        |        |        |        |        |        |        |        | 361.61 | 360.12 | 346.96 |
| 5/30    | 7:00A  | 349.80 | 349.86 | 349.96 | 349.73 | 349.80 | 349.81 | 349.65 | 349.69 | 349.71 | 350.31 | 349.37 | 349.92 |        |        |        | 361.65 | 360.14 | 346.95 |
| 5/31    | 7:00A  | 349.86 |        |        |        |        |        | 349.65 |        |        |        |        |        |        |        |        | 361.67 | 360.14 | 346.95 |
| 6/03    | 3:30P  | 349.79 |        |        |        |        |        | 349.57 |        |        |        |        |        |        |        |        | 361.38 | 359.96 | 346.60 |
| 6/04    | 10:00A | 349.72 |        |        |        |        |        | 349.49 |        |        |        |        |        |        |        |        | 361.33 | 359.83 | 346.46 |
| 6/05    | 8:30A  | 349.60 |        |        |        |        |        | 349.36 |        |        |        |        |        |        |        |        | 361.15 | 359.70 | 346.22 |
| 6/06    | 8:00A  | 349.52 |        |        |        |        |        | 349.34 |        |        |        |        |        |        |        |        | 361.00 | 359.55 | 346.02 |
| 6/07    | 8:00A  | 349.51 |        |        |        |        |        | 349.32 |        |        |        |        |        |        |        |        | 360.97 | 359.49 | 345.83 |
| 6/10    | 8:00A  | 349.51 |        |        |        |        |        | 349.32 |        |        |        |        |        |        |        |        | 360.82 | 359.34 | 345.44 |
| 6/12    | 8:00A  | 349.51 |        |        |        |        |        | 349.31 |        |        |        |        |        |        |        |        | 360.75 | 359.28 | 345.32 |
| 6/12    | 1:30P  | 349.62 |        |        |        |        |        | 349.40 |        |        |        |        |        |        |        |        | 360.76 | 359.31 | 345.37 |
| 6/13    | 8:30A  | 349.71 |        |        |        |        |        | 349.51 |        |        |        |        |        |        |        |        | 360.59 | 359.21 | 345.57 |
| 6/13    | 2:30P  | 349.57 |        |        |        |        |        | 349.39 |        |        |        |        |        |        |        |        | 360.67 | 359.24 | 345.64 |
| 6/14    | 8:30A  | 349.72 |        |        |        |        |        | 349.53 |        |        |        |        |        |        |        |        | 360.71 | 359.22 | 345.76 |
| 6/17    | ---    | 349.79 | 349.81 | 349.85 | 349.69 | 349.77 | 349.77 | 349.62 | 349.67 | 349.71 | 350.04 | 350.02 | 349.92 |        |        |        | 360.59 | 359.03 |        |
| 6/18    | 6:00P  | 349.91 |        |        |        |        |        | 349.71 |        |        |        |        |        |        |        |        | 360.63 | 359.07 | 345.88 |
| 6/19    | 5:30P  | 349.86 |        |        |        |        |        | 349.67 |        |        |        |        |        |        |        |        | 360.62 | 359.05 | 346.25 |
| 6/20    | 11:00A | 349.90 |        |        |        |        |        | 349.69 |        |        |        |        |        |        |        |        | 360.53 | 359.00 | 346.02 |
| 6/21    | 8:30A  | 349.94 |        |        |        |        |        | 349.74 |        |        |        |        |        |        |        |        | 360.49 | 358.95 | 346.12 |
| 6/21    | 4:00P  | 349.89 |        |        |        |        |        | 349.73 |        |        |        |        |        |        |        |        | 360.48 | 358.89 | 346.14 |
| 6/22    | 12:00P | 349.95 |        |        |        |        |        | 349.77 |        |        |        |        |        |        |        |        | 360.35 | 358.88 | 346.25 |
| 6/23    | 12:00P | 349.99 |        |        |        |        |        | 349.81 |        |        |        |        |        |        |        |        | 360.17 | 358.76 | 346.34 |
| 6/24    | 8:30A  | 350.04 |        |        |        |        |        | 349.86 |        |        |        |        |        |        |        |        | 360.08 | 358.71 | 346.40 |
| 6/24    | 3:30P  | 349.98 |        |        |        |        |        | 349.82 |        |        |        |        |        |        |        |        | 360.12 | 358.73 | 346.42 |
| 6/25    | 8:00A  | 350.08 |        |        |        |        |        | 349.89 |        |        |        |        |        |        |        |        | 360.04 | 358.66 | 346.44 |

| WELL |        | 28S    | 28I    | 28D    | 29S    | 29I    | 29D    | 30S    | 30I    | 30D    | 31S    | 31I    | 31D    | 32D    | 34D    | 35D    | 38S    | 39S    | 42S    |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ELEV | M.P.   | 354.94 | 357.44 | 357.04 | 355.27 | 355.37 | 355.25 | 354.11 | 354.11 | 354.07 | 355.62 | 355.67 | 354.22 | 381.31 | 385.08 | 381.36 | 373.61 | 372.26 | 354.06 |
| DATE | TIME   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/25 | 3:00P  | 350.10 |        |        |        |        |        | 349.93 |        |        |        |        |        |        |        |        | 360.10 | 358.70 | 346.47 |
| 6/26 | 9:00A  | 350.05 |        |        |        |        |        | 349.89 |        |        |        |        |        |        |        |        | 359.98 | 358.62 | 346.51 |
| 6/27 | 8:00A  | 350.14 | 350.16 | 350.17 | 350.01 | 350.08 | 350.06 | 349.94 | 350.01 | 350.03 | 349.97 | 350.34 | 350.22 |        |        |        | 359.88 | 358.56 | 346.57 |
| 6/28 | 9:00A  | 349.78 | 349.80 | 349.85 | 349.67 | 349.77 | 349.77 | 349.64 | 349.71 | 349.76 | 349.78 | 350.12 | 349.94 |        |        |        | 359.90 | 358.56 | 346.63 |
| 7/01 | 9:00A  | 349.76 | 349.79 | 349.82 | 349.64 | 349.73 | 349.73 | 349.61 | 349.69 | 349.74 | 349.69 | 350.08 | 349.92 |        |        |        | 359.64 | 358.40 | 346.81 |
| 7/02 | 2:30P  | 349.70 | 349.72 | 349.76 | 349.60 | 349.68 | 349.68 | 349.55 | 349.62 | 349.68 | 349.66 | 350.06 | 349.88 |        |        |        | 359.64 | 358.37 | 346.86 |
| 7/03 | 9:30A  | 349.75 |        |        |        |        |        | 349.63 |        |        |        |        |        |        |        |        | 359.48 | 358.26 | 346.88 |
| 7/05 | 9:15A  | 349.76 | 349.78 | 349.82 | 349.65 | 349.74 | 349.75 | 349.62 | 349.70 | 349.74 | 349.67 | 350.09 | 349.93 |        |        |        | 359.37 | 358.18 | 346.96 |
| 7/08 | 3:00P  | 349.77 | 349.78 | 349.84 | 349.67 | 349.75 | 349.76 | 349.63 | 349.71 | 349.77 | 349.70 | 350.10 | 349.94 |        |        |        | 359.31 | 358.11 | 347.15 |
| 7/09 | 4:30P  | 349.71 |        |        |        |        |        | 349.57 |        |        |        |        |        |        |        |        | 359.19 | 358.00 | 347.22 |
| 7/10 | 2:00P  | 349.78 |        |        |        |        |        | 349.63 |        |        |        |        |        |        |        |        | 359.16 | 357.96 | 347.25 |
| 7/11 | 3:30P  | 349.73 | 349.76 | 349.79 | 349.63 | 349.71 | 349.71 | 349.60 | 349.67 | 349.72 | 349.60 | 350.05 | 349.89 |        |        |        | 359.03 | 357.87 | 347.24 |
| 7/12 | 2:00P  | 349.70 | 349.71 | 349.77 | 349.59 | 349.69 | 349.68 | 349.55 | 349.65 | 349.67 | 349.58 | 350.04 | 349.86 |        |        |        | 359.01 | 357.83 | 347.25 |
| 7/15 | 1:00P  | 349.67 | 349.68 | 349.74 | 349.57 | 349.67 | 349.66 | 349.53 | 349.61 | 349.66 | 349.48 | 350.00 | 349.83 |        |        |        | 358.68 | 357.60 | 347.22 |
| 7/16 | 11:30A | 349.64 | 349.66 | 349.70 | 349.54 | 349.64 | 349.62 | 349.50 | 349.58 | 349.61 | 349.45 | 349.98 | 349.82 |        |        |        | 358.66 | 357.58 | 347.23 |
| 7/17 | 2:45P  | 349.68 | 349.70 | 349.75 | 349.58 | 349.68 | 349.67 | 349.55 | 349.62 | 349.67 | 349.45 | 350.00 | 349.83 |        |        |        | 358.73 | 357.61 | 347.18 |
| 7/17 | 4:10P  | 349.68 | 349.69 | 349.76 | 349.58 | 349.68 | 349.67 | 349.55 | 349.61 | 349.67 | 349.44 | 350.02 | 349.84 |        |        |        | 358.73 | 357.61 | 347.18 |
| 7/18 | 8:50A  | 349.74 | 349.76 | 349.80 | 349.65 | 349.73 | 349.73 | 349.61 | 349.69 | 349.74 | 349.48 | 350.07 | 349.91 |        |        |        | 358.59 | 357.52 | 347.23 |
| 7/18 | 2:35P  | 349.73 |        |        |        |        |        | 349.61 |        |        |        |        |        |        |        |        | 358.62 | 357.54 | 347.25 |
| 7/19 | 9:00A  | 349.65 | 349.67 | 349.72 | 349.55 | 349.64 | 349.64 | 349.53 | 349.58 | 349.64 | 349.48 | 350.01 | 349.83 |        |        |        | 358.50 | 357.45 | 347.28 |
| 7/19 | 5:00P  | 349.62 |        |        |        |        |        | 349.51 |        |        |        |        |        |        |        |        | 358.51 | 357.45 | 347.31 |
| 7/22 | 9:20A  | 349.74 | 349.77 | 349.81 | 349.65 | 349.74 | 349.72 | 349.62 | 349.69 | 349.74 | 349.49 | 350.06 | 349.90 |        |        |        | 358.29 | 357.24 | 347.33 |
| 7/23 | 9:00A  | 349.79 | 349.82 | 349.86 | 349.71 | 349.79 | 349.79 | 349.70 | 349.74 | 349.79 | 349.63 | 350.10 | 349.96 |        |        |        | 358.42 | 357.36 | 347.39 |
| 7/24 | 9:15A  | 349.79 |        |        |        |        |        | 349.67 |        |        |        |        |        |        |        |        | 358.29 | 357.25 | 347.42 |
| 7/25 | 12:00P | 349.76 | 349.78 | 349.82 | 349.66 | 349.76 | 349.73 | 349.63 | 349.69 | 349.74 | 349.63 | 350.08 | 349.98 |        |        |        | 358.25 | 357.20 | 347.44 |
| 7/26 | 10:15A | 349.67 | 349.67 | 349.73 | 349.56 | 349.64 | 349.63 | 349.54 | 349.61 | 349.65 | 349.53 | 350.01 | 349.90 |        |        |        | 358.10 | 357.10 | 347.45 |
| 7/29 | 10:10A | 349.72 | 349.74 | 349.78 | 349.61 | 349.70 | 349.69 | 349.60 | 349.67 | 349.71 | 349.50 | 350.04 | 349.94 |        |        |        | 358.03 | 357.02 | 347.45 |
| 7/30 | 12:15P | 349.70 | 349.71 | 349.75 | 349.60 | 349.69 | 349.66 | 349.58 | 349.65 | 349.68 | 349.45 | 350.03 | 349.92 |        |        |        | 358.01 | 356.99 | 347.45 |
| 7/31 | 2:00P  | 349.69 | 349.69 | 349.74 | 349.59 | 349.69 | 349.66 | 349.57 | 349.64 | 349.67 | 349.43 | 350.01 | 349.91 |        |        |        | 357.89 | 356.90 | 347.44 |
| 8/1  | 11:00A | 349.66 | 349.67 | 349.72 | 349.56 | 349.64 | 349.62 | 349.54 | 349.60 | 349.64 | 349.44 | 350.00 | 349.90 |        |        |        | 357.90 | 356.90 | 347.43 |
| 8/2  | 2:00P  | 349.67 |        |        |        |        |        | 349.54 |        |        |        |        |        |        |        |        | 357.85 | 356.82 | 347.43 |
| 8/5  | 11:00A | 349.66 | 349.67 | 349.72 | 349.55 | 349.65 | 349.63 | 349.53 | 349.61 | 349.63 | 349.51 | 349.96 | 349.87 |        |        |        | 357.75 | 356.79 | 347.47 |
| 8/6  | 11:30A | 349.60 | 349.61 | 349.67 | 349.51 | 349.59 | 349.58 | 349.48 | 349.55 | 349.59 | 349.48 | 349.93 | 349.83 |        |        |        | 357.70 | 356.74 | 347.45 |
| 8/7  | 10:00A | 349.60 | 349.61 | 349.65 | 349.49 | 349.58 | 349.55 | 349.48 | 349.55 | 349.58 | 349.49 | 349.90 | 349.81 |        |        |        | 357.66 | 356.70 | 347.43 |
| 8/8  | 2:30P  | 349.58 | 349.60 | 349.64 | 349.48 | 349.56 | 349.55 | 349.46 | 349.53 | 349.55 | 349.47 | 349.91 | 349.81 |        |        |        | 357.70 | 356.76 | 347.47 |
| 8/9  | 12:30P | 349.66 | 349.68 | 349.73 | 349.56 | 349.65 | 349.63 | 349.55 | 349.62 | 349.65 | 349.52 | 350.00 | 349.89 |        |        |        | 357.76 | 356.84 | 347.52 |
| 8/12 | 10:30A | 349.67 | 349.69 | 349.72 | 349.57 | 349.66 | 349.64 | 349.55 | 349.62 | 349.65 | 349.88 | 349.97 | 349.88 |        |        |        | 357.68 | 356.79 | 347.60 |
| 8/13 | 12:30P | 349.70 | 349.72 | 349.78 | 349.61 | 349.69 | 349.68 | 349.58 | 349.65 | 349.68 | 349.91 | 350.02 | 349.92 |        |        |        | 357.75 | 356.81 | 347.65 |
| 8/14 | 10:00A | 349.66 | 349.68 | 349.74 | 349.57 | 349.65 | 349.62 | 349.55 | 349.62 | 349.65 | 349.83 | 349.99 | 349.88 |        |        |        | 357.71 | 356.77 | 347.63 |
| 8/15 | ---    | 349.64 | 349.66 | 349.71 | 349.54 | 349.63 | 349.62 | 349.53 | 349.59 | 349.63 | 349.79 | 349.96 | 349.86 |        |        |        | 357.68 | 356.74 | 347.61 |
| 8/16 | 10:10A | 349.60 | 349.62 | 349.68 | 349.51 | 349.60 | 349.57 | 349.49 | 349.56 | 349.59 | 349.72 | 349.93 | 349.82 |        |        |        | 357.49 | 356.63 | 347.57 |
| 8/19 | 2:15P  | 349.57 | 349.59 | 349.64 | 349.48 | 349.56 | 349.55 | 349.45 | 349.52 | 349.55 | 349.58 | 349.90 | 349.79 |        |        |        | 357.42 | 356.58 | 347.50 |
| 8/20 | 10:45A | 349.56 | 349.58 | 349.64 | 349.45 | 349.55 | 349.54 | 349.45 | 349.52 | 349.55 | 349.51 | 349.88 | 349.78 |        |        |        | 357.33 | 356.50 | 347.46 |
| 8/21 | 2:20P  | 349.58 | 349.59 | 349.64 | 349.48 | 349.57 | 349.56 | 349.46 | 349.53 | 349.57 | 349.56 | 349.90 | 349.79 |        |        |        | 357.37 | 356.54 | 347.46 |

## MILLER CONTAINER

## MUNICIPAL AQUIFER – PREMONITORING GROUND WATER ELEVATIONS 1991

| WELL       |        | 28S    | 28I    | 28D    | 29S    | 29I    | 29D    | 30S    | 30I    | 30D    | 31S    | 31I    | 31D    | 32D    | 34D    | 35D    | 38S    | 39S    | 42S    |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ELEV       | M.P.   | 356.94 | 357.44 | 357.04 | 355.27 | 355.37 | 355.25 | 354.11 | 354.11 | 354.07 | 355.62 | 355.67 | 356.22 | 381.31 | 385.08 | 381.36 | 373.61 | 372.26 | 354.06 |
| DATE       | TIME   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/22       | 2:15P  | 349.57 | 349.59 | 349.64 | 349.47 | 349.56 | 349.53 | 349.45 | 349.52 | 349.56 | 349.55 | 349.89 | 349.78 |        |        |        | 357.38 | 356.53 | 347.46 |
| 8/23       | 2:20P  | 349.51 | 349.52 | 349.58 | 349.42 | 349.51 | 349.48 | 349.40 | 349.46 | 349.49 | 349.45 | 349.83 | 349.72 |        |        |        |        | 356.42 | 347.42 |
| 8/27       | 9:30A  | 349.52 | 349.54 | 349.58 | 349.44 | 349.52 | 349.50 | 349.39 | 349.47 | 349.49 | 349.45 | 349.84 | 349.73 |        |        |        | 356.70 | 356.33 | 347.37 |
| 8/30       | ---    | 349.45 | 349.45 | 349.52 | 349.36 | 349.43 | 349.42 | 349.34 | 349.38 | 349.44 | 349.20 | 349.77 | 349.59 |        |        |        | 358.32 | 356.30 | 347.35 |
| 9/3        | 11:00A | 349.42 | 349.46 | 349.49 | 349.33 | 349.42 | 349.37 | 349.31 | 349.38 | 349.41 | 349.18 | 349.72 | 349.57 |        |        |        | 356.73 | 356.19 | 347.25 |
| 9/4        | 1:30P  | 349.40 | 349.42 | 349.47 | 349.31 | 349.39 | 349.37 | 349.23 | 349.35 | 349.39 | 349.18 | 349.71 | 349.56 |        |        |        | 356.97 | 356.14 | 347.27 |
| 9/6        | 10:00A | 349.36 | 349.39 | 349.42 | 349.26 | 349.35 | 349.32 | 349.25 | 349.31 | 349.37 | 349.20 | 349.65 | 349.52 |        |        |        | 356.88 | 356.04 | 347.25 |
| 9/13       | 10:00A | 349.29 | 349.30 | 349.37 | 349.19 | 349.27 | 349.27 | 349.17 | 349.24 | 349.26 | 349.10 | 349.59 | 349.44 |        |        |        | 356.71 | 355.91 | 347.18 |
| 9/20       | 11:00A | 349.24 | 349.25 | 349.31 | 349.14 | 349.21 | 349.21 | 349.13 | 349.19 | 349.22 | 349.78 | 349.55 | 349.38 |        |        |        | 356.81 | 356.06 | 347.41 |
| 9/23       | ---    | 349.16 | 349.17 | 349.25 | 349.06 | 349.16 | 349.15 | 349.05 | 349.11 | 349.16 | 349.55 | 349.97 | 349.30 |        |        |        | 356.95 | 356.09 | 347.96 |
| 9/27       | ---    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10/4       | 1:00P  | 349.21 | 349.23 | 349.28 | 349.11 | 349.20 | 349.17 | 349.09 | 349.16 | 349.16 | 349.73 | 349.51 | 349.35 |        |        |        | 357.23 | 356.24 | 347.49 |
| 10/8       | ---    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10/9       | 10:30A | 349.20 | 349.21 | 349.27 | 349.09 | 349.19 | 349.16 | 349.08 | 349.15 | 349.17 | 349.74 | 349.53 | 349.36 |        |        |        | 357.53 | 356.47 | 347.60 |
| 10/16      | 11:30A | 349.67 | 349.69 | 349.73 | 349.57 | 349.65 | 349.64 | 349.55 | 349.61 | 349.63 | 350.69 | 349.93 | 349.79 |        |        |        | 357.95 | 356.97 | 347.92 |
| 10/22      | 1:30P  | 349.49 | 349.30 | 349.37 | 349.19 | 349.27 | 349.27 | 349.38 | 349.24 | 349.26 | 349.10 | 349.59 | 349.44 |        |        |        | 358.40 | 357.13 | 347.85 |
| 11/21      | ---    | 349.54 | 349.57 | 349.62 | 349.44 | 349.53 | 349.52 | 349.44 | 349.49 | 349.52 | 350.07 | 349.86 | 349.73 |        |        |        | 358.72 | 352.81 | 347.84 |
| 12/2       | 12:00P | 349.83 | 349.86 | 349.91 | 349.73 | 349.83 | 349.81 | 349.71 | 349.76 | 349.81 | 350.37 | 350.15 | 350.02 |        |        |        | 359.45 | 358.27 | 347.88 |
| 12/11      | 9:30A  | 350.26 | 350.28 | 350.34 | 350.15 | 350.23 | 350.25 | 350.15 | 350.19 | 350.23 | 350.86 | 350.59 | 350.46 |        |        |        | 360.45 | 359.28 | 348.48 |
| 12/12      | 9:00A  | 350.18 | 350.20 | 350.26 | 350.09 | 350.15 | 350.17 | 350.07 | 350.11 | 350.16 | 350.74 | 350.51 | 350.39 |        |        |        | 360.39 | 359.12 | 348.40 |
| 12/16-1991 | ---    | 350.22 | 350.25 | 350.32 | 350.14 | 350.21 | 350.21 | 350.12 | 350.16 | 350.20 | 350.62 | 350.54 | 350.42 |        |        |        | 360.32 | 359.01 | 348.27 |



## MILLER CONTAINER

## MUNICIPAL AQUIFER -- PREMONITORING GROUND WATER ELEVATIONS 1991

| WELL    |        | 43S    | 43D    | 44S    | 45S    | 45D    | 46S    | 46D    | 49S    | 49I    | 49D    | 50S    | 50I    | 50D    | 57S    | 57D    | K-1    | M-1    | K-2    | M-2    |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ELEV    | M.P.   | 353.58 | 353.50 | 353.06 | 354.50 | 354.04 | 354.12 | 354.24 | 378.93 | 379.16 | 379.04 | 362.82 | 362.57 | 362.67 | 365.01 | 365.23 | 355.54 | 353.91 | 355.51 | 356.27 |
| DATE    | TIME   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/15/91 | 2:00P  | 344.16 |        | 345.04 | 345.03 | 345.05 | 349.14 | 348.97 |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/16    | 8:00A  | 343.98 | 343.91 | 344.86 | 344.84 | 344.86 | 349.06 | 348.88 |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/16    | 11:00A | 343.98 | 343.91 | 344.86 | 344.84 | 344.86 | 349.04 | 348.88 |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/16    | 3:00P  | 343.96 | 343.90 | 344.85 | 344.82 | 344.84 | 349.01 | 348.84 |        |        |        |        |        |        |        |        | 338.14 |        |        |        |
| 5/17    | 10:30A | 343.82 | 343.77 | 344.71 | 344.66 | 344.68 | 348.95 | 348.76 |        |        |        |        |        |        |        |        | 338.12 |        |        |        |
| 5/17    | 4:00P  | 343.74 | 343.71 | 344.65 | 344.60 | 344.63 | 348.90 | 348.72 |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/18    | 7:30A  | 343.69 | 343.65 | 344.58 | 344.52 | 344.56 | 348.84 | 348.68 |        |        |        |        |        |        |        |        |        |        |        |        |
| 5/20    | 8:00A  | 343.33 | 343.29 | 344.23 | 344.16 | 344.18 | 348.58 | 348.38 |        |        |        |        |        |        |        |        | 337.62 |        |        |        |
| 5/20    | 2:00P  | 343.31 | 343.27 | 344.22 | 344.13 | 344.15 | 348.57 | 348.38 |        |        |        |        |        |        |        |        | 337.60 | 347.99 |        |        |
| 5/21    | 8:30A  | 343.18 | 343.16 | 344.12 | 344.02 | 344.05 | 348.48 | 348.29 |        |        |        |        |        |        |        |        | 337.46 | 347.90 |        |        |
| 5/21    | 4:00P  | 343.15 | 343.12 | 344.08 | 344.01 | 344.02 | 348.45 | 348.26 |        |        |        |        |        |        |        |        | 337.45 | 347.88 |        |        |
| 5/22    | 8:00A  | 343.02 | 343.02 | 343.98 | 343.88 | 343.90 | 348.39 | 348.19 |        |        |        |        |        |        |        |        | 337.30 | 347.75 |        |        |
| 5/22    | 4:00P  | 343.00 | 343.00 | 343.95 | 343.83 | 343.88 | 348.37 | 348.14 |        |        |        |        |        |        |        |        | 337.32 | 347.77 |        |        |
| 5/23    | 8:30A  | 342.91 | 342.90 | 343.86 | 343.75 | 343.78 | 348.27 | 348.08 |        |        |        |        |        |        |        |        | 337.20 | 347.65 |        |        |
| 5/23    | 1:00P  | 342.90 | 342.89 | 343.86 | 343.74 | 343.77 | 348.27 | 348.08 |        |        |        |        |        |        |        |        | 337.21 | 347.65 |        |        |
| 5/24    | 8:30A  | 343.61 | 343.67 | 344.52 | 344.24 | 344.27 | 348.43 | 348.26 |        |        |        |        |        |        |        |        | 339.28 | 347.97 |        |        |
| 5/24    | 3:30P  | 343.68 | 343.75 | 344.57 | 344.30 | 344.34 | 348.44 | 348.28 |        |        |        |        |        |        |        |        | 339.34 | 347.98 |        |        |
| 5/25    | 1:00P  | 343.78 | 343.84 | 344.64 | 344.40 | 344.43 | 348.43 | 348.28 |        |        |        |        |        |        |        |        | 339.42 | 347.92 |        |        |
| 5/28    | 12:00P | 344.98 | 344.61 | 345.47 | 345.25 | 345.26 | 349.15 | 348.96 |        |        |        |        |        |        |        |        | 340.10 | 348.85 |        |        |
| 5/29    | 1:30P  | 344.85 | 344.60 | 345.43 | 345.26 | 345.26 | 349.09 | 348.91 |        |        |        |        |        |        |        |        | 340.14 | 348.68 |        |        |
| 5/30    | 7:00A  | 344.82 | 344.62 | 345.44 | 345.25 | 345.28 | 349.12 | 348.94 |        |        |        |        |        |        |        |        | 340.14 | 348.66 |        |        |
| 5/31    | 7:00A  | 344.78 | 344.64 | 345.46 | 345.26 | 345.28 | 349.11 | 348.95 |        |        |        |        |        |        |        |        | 340.20 | 348.70 |        |        |
| 6/03    | 3:30P  | 344.62 | 344.59 | 345.38 | 345.21 | 345.22 | 348.92 | 348.87 |        |        |        |        |        |        |        |        | 340.16 | 348.63 |        |        |
| 6/04    | 10:00A | 344.99 | 344.58 | 345.36 | 345.17 | 345.19 | 348.90 | 348.74 |        |        |        |        |        |        |        |        | 340.34 | 348.47 |        |        |
| 6/05    | 8:30A  | 344.69 | 344.69 | 345.41 | 345.28 | 345.30 | 348.48 | 348.39 |        |        |        |        |        |        |        |        | 340.65 | 348.19 |        |        |
| 6/06    | 8:00A  | 344.67 | 344.70 | 345.45 | 345.26 | 345.27 | 348.91 | 348.73 |        |        |        |        |        |        |        |        | 340.62 | 348.50 |        |        |
| 6/07    | 8:00A  | 344.68 | 344.71 | 345.46 | 345.28 | 345.29 | 348.89 | 348.73 |        |        |        |        |        |        |        |        | 340.62 | 348.52 |        |        |
| 6/10    | 8:00A  | 344.67 | 344.70 | 345.47 | 345.29 | 345.31 | 348.89 | 348.74 |        |        |        |        |        |        |        |        | 340.63 | 348.50 |        |        |
| 6/12    | 8:00A  | 344.67 | 344.72 | 345.47 | 345.26 | 345.32 | 348.89 | 348.71 |        |        |        |        |        |        |        |        | 340.62 | 348.47 |        |        |
| 6/12    | 1:30P  | 344.76 | 344.84 | 345.61 | 345.35 | 345.40 | 349.01 | 348.84 |        |        |        |        |        |        |        |        | 341.23 | 348.57 |        |        |
| 6/13    | 8:30A  | 345.15 | 345.22 | 345.96 | 345.61 | 345.64 | 349.12 | 348.96 |        |        |        |        |        |        |        |        | 341.74 | 348.71 |        |        |
| 6/13    | 2:30P  | 345.21 | 345.26 | 345.98 | 345.67 | 345.69 | 349.06 | 348.92 |        |        |        |        |        |        |        |        | 341.78 | 348.71 |        |        |
| 6/14    | 8:30A  | 345.30 | 345.32 | 346.04 | 345.76 | 345.78 | 349.15 | 348.99 |        |        |        |        |        |        |        |        | 341.88 | 348.71 |        |        |
| 6/17    | ---    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/18    | 6:00P  | 345.58 | 345.62 | 346.29 | 346.06 | 346.09 | 349.34 | 349.20 |        |        |        |        |        |        |        |        | 342.16 | 348.99 |        |        |
| 6/19    | 5:30P  | 345.95 | 345.97 | 346.65 | 346.26 | 346.27 | 349.67 | 349.32 |        |        |        |        |        |        |        |        | 342.19 | 348.94 |        |        |
| 6/20    | 11:00A | 345.64 | 345.69 | 346.33 | 346.10 | 346.13 | 349.32 | 349.20 |        |        |        |        |        |        |        |        | 342.20 | 348.98 |        |        |
| 6/21    | 8:30A  | 345.66 | 345.71 | 346.36 | 346.16 | 346.18 | 349.34 | 349.25 |        |        |        |        |        |        |        |        | 342.24 | 349.04 |        |        |
| 6/21    | 4:00P  | 345.77 | 345.84 | 346.44 | 346.20 | 346.24 | 349.37 | 349.24 |        |        |        |        |        |        |        |        | 342.97 | 349.02 |        |        |
| 6/22    | 12:00P | 346.14 | 346.22 | 346.80 | 346.51 | 346.55 | 349.47 | 349.36 |        |        |        |        |        |        |        |        | 343.48 | 349.14 |        |        |
| 6/23    | 12:00P | 346.26 | 346.36 | 346.93 | 346.66 | 346.69 | 349.54 | 349.42 |        |        |        |        |        |        |        |        | 343.60 | 349.27 |        |        |
| 6/24    | 8:30A  | 346.36 | 346.44 | 347.01 | 346.77 | 346.80 | 349.58 | 349.48 |        |        |        |        |        |        |        |        | 343.70 | 349.30 |        |        |
| 6/24    | 3:30P  | 346.38 | 346.46 | 347.03 | 346.79 | 346.81 | 349.57 | 349.46 |        |        |        |        |        |        |        |        | 343.72 | 349.26 |        |        |
| 6/25    | 8:00A  | 346.42 | 346.51 | 347.07 | 346.83 | 346.87 | 349.63 | 349.53 |        |        |        |        |        |        |        |        | 343.77 | 349.34 |        |        |

## MILLER CONTAINER

## MUNICIPAL AQUIFER – PREMONITORING GROUND WATER ELEVATIONS 1991

| WELL |        | 43S    | 43D    | 44S    | 45S    | 45D    | 46S    | 46D    | 49S    | 49I    | 49D    | 50S    | 50I    | 50D    | 57S    | 57D    | K-1    | M-1    | K-2    | M-2    |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ELEV | M.P.   | 353.58 | 353.50 | 353.06 | 354.50 | 354.04 | 354.12 | 354.24 | 378.93 | 379.16 | 379.04 | 362.82 | 362.57 | 362.67 | 365.01 | 365.23 | 355.54 | 353.91 | 355.51 | 356.27 |
| DATE | TIME   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 6/25 | 3:00P  | 346.47 | 346.55 | 347.12 | 346.89 | 346.91 | 349.66 | 349.55 |        |        |        |        |        |        |        |        | 343.81 | 349.40 |        |        |
| 6/26 | 9:00A  | 346.48 | 346.57 | 347.13 | 346.92 | 346.95 | 349.64 | 349.53 |        |        |        |        |        |        |        |        | 343.83 | 349.37 |        |        |
| 6/27 | 8:00A  | 346.54 | 346.63 | 347.19 | 346.98 | 347.01 | 349.69 | 349.58 |        |        |        |        |        |        |        |        | 343.91 | 349.42 |        |        |
| 6/28 | 9:00A  | 346.57 | 346.65 | 347.19 | 347.05 | 347.07 | 349.56 | 349.46 |        |        |        |        |        |        |        |        | 343.93 | 349.33 |        |        |
| 7/01 | 9:00A  | 346.64 | 346.72 | 347.24 | 347.13 | 347.15 | 349.56 | 349.46 |        |        |        |        |        |        |        |        | 343.98 | 349.33 |        |        |
| 7/02 | 2:30P  | 346.67 | 346.74 | 347.26 | 347.16 | 347.19 | 349.54 | 349.43 |        |        |        |        |        |        |        |        | 344.02 | 349.29 |        |        |
| 7/03 | 9:30A  | 346.68 | 346.78 | 347.28 | 347.16 | 347.20 | 349.58 | 349.48 |        |        |        |        |        |        |        |        | 344.03 | 349.34 |        |        |
| 7/05 | 9:15A  | 346.73 | 346.80 | 347.31 | 347.22 | 347.24 | 349.58 | 349.49 |        |        |        |        |        |        |        |        | 344.08 | 349.35 |        |        |
| 7/08 | 3:00P  | 346.77 | 346.84 | 347.33 | 347.26 | 347.28 | 349.60 | 349.51 |        |        |        |        |        |        |        |        | 344.09 | 349.40 |        |        |
| 7/09 | 4:30P  | 346.78 | 346.85 | 347.33 | 347.30 | 347.29 | 349.60 | 349.51 |        |        |        |        |        |        |        |        | 344.09 | 349.40 |        |        |
| 7/10 | 2:00P  | 346.80 | 346.86 | 347.36 | 347.32 | 347.32 | 349.60 | 349.52 |        |        |        |        |        |        |        |        | 344.11 | 349.38 |        |        |
| 7/11 | 3:30P  | 346.78 | 346.85 | 347.35 | 347.28 | 347.29 | 349.58 | 349.49 |        |        |        |        |        |        |        |        | 344.11 | 349.37 | 345.50 |        |
| 7/12 | 2:00P  | 346.79 | 346.85 | 347.33 | 347.28 | 347.31 | 349.55 | 349.46 |        |        |        |        |        |        |        |        | 344.11 | 349.31 | 345.49 |        |
| 7/15 | 1:00P  | 346.73 | 346.80 | 347.29 | 347.25 | 347.25 | 349.51 | 349.41 |        |        |        |        |        |        |        |        | 344.05 | 349.32 | 345.50 |        |
| 7/16 | 11:30A | 346.73 | 346.80 | 347.28 | 347.22 | 347.25 | 349.49 | 349.40 |        |        |        |        |        |        |        |        | 344.05 | 349.28 | 345.48 |        |
| 7/17 | 2:45P  | 346.75 | 346.81 | 347.31 | 347.25 | 347.28 | 349.52 | 349.45 |        |        |        |        |        |        |        |        | 344.08 | 349.33 | 345.54 |        |
| 7/17 | 4:10P  | 346.82 | 346.93 | 347.38 | 347.30 | 347.32 | 349.53 | 349.45 |        |        |        |        |        |        |        |        | 344.64 | 349.33 | 345.54 |        |
| 7/18 | 8:50A  | 347.11 | 347.23 | 347.67 | 347.52 | 347.56 | 349.63 | 349.55 |        |        |        |        |        |        |        |        | 345.34 | 349.48 | 345.62 |        |
| 7/18 | 2:35P  | 347.15 | 347.26 | 347.70 | 347.57 | 347.59 | 349.64 | 349.57 |        |        |        |        |        |        |        |        | 345.39 | 349.48 | 345.58 |        |
| 7/19 | 9:00A  | 347.20 | 347.31 | 347.75 | 347.63 | 347.66 | 349.60 | 349.52 |        |        |        |        |        |        |        |        | 345.48 | 349.43 | 345.55 |        |
| 7/19 | 5:00P  | 347.12 | 347.21 | 347.66 | 347.62 | 347.62 | 349.58 | 349.50 |        |        |        |        |        |        |        |        | 345.00 | 349.38 | 345.50 |        |
| 7/22 | 9:20A  | 347.09 | 347.20 | 347.65 | 347.58 | 347.61 | 349.65 | 349.57 |        |        |        |        |        |        |        |        | 344.97 | 349.49 | 345.67 |        |
| 7/23 | 9:00A  | 347.17 | 347.27 | 347.72 | 347.64 | 347.67 | 349.70 | 349.63 |        |        |        |        |        |        |        |        |        | 349.52 | 346.00 |        |
| 7/24 | 9:15A  | 347.19 | 347.27 | 347.70 | 347.63 | 347.66 | 349.69 | 349.61 |        |        |        |        |        |        |        |        | 344.87 | 349.54 |        |        |
| 7/25 | 12:00P | 347.18 | 347.25 | 347.69 | 347.63 | 347.66 | 349.67 | 349.59 |        |        |        |        |        |        |        |        | 344.87 | 349.50 | 345.59 |        |
| 7/26 | 10:15A | 347.14 | 347.21 | 347.65 | 347.60 | 347.63 | 349.60 | 349.52 |        |        |        |        |        |        |        |        | 344.82 | 349.42 | 345.53 |        |
| 7/29 | 10:10A | 347.19 | 347.25 | 347.69 | 347.64 | 347.67 | 349.65 | 349.57 |        |        |        |        |        |        |        |        | 344.86 | 349.52 | 345.52 |        |
| 7/30 | 12:15P | 347.20 | 347.26 | 347.69 | 347.65 | 347.68 | 349.63 | 349.55 |        |        |        |        |        |        |        |        | 344.89 | 349.51 | 345.49 |        |
| 7/31 | 2:00P  | 347.17 | 347.24 | 347.66 | 347.63 | 347.66 | 349.62 | 349.54 |        |        |        |        |        |        |        |        | 344.85 | 349.49 | 345.48 |        |
| 8/1  | 11:00A | 347.18 | 347.24 | 347.66 | 347.64 | 347.67 | 349.60 | 349.53 |        |        |        |        |        |        |        |        | 344.88 | 349.46 | 345.47 |        |
| 8/2  | 2:00P  | 347.16 | 347.22 | 347.65 | 347.60 | 347.64 | 349.56 | 349.51 |        |        |        |        |        |        |        |        | 344.86 | 349.45 |        |        |
| 8/5  | 11:00A | 347.15 | 347.21 | 347.63 | 347.59 | 347.62 | 349.58 | 349.51 |        |        |        |        |        |        |        |        | 344.84 | 349.44 | 345.43 |        |
| 8/6  | 11:30A | 347.12 | 347.17 | 347.60 | 347.56 | 347.60 | 349.54 | 349.46 |        |        |        |        |        |        |        |        | 344.81 | 349.39 | 345.38 |        |
| 8/7  | 10:00A | 347.11 | 347.16 | 347.58 | 347.56 | 347.59 | 349.53 | 349.45 |        |        |        |        |        |        |        |        | 344.81 | 349.39 | 345.36 |        |
| 8/8  | 2:30P  | 347.14 | 347.19 | 347.61 | 347.60 | 347.62 | 349.53 | 349.44 |        |        |        |        |        |        |        |        | 344.85 | 349.34 | 345.36 |        |
| 8/9  | 12:30P | 347.21 | 347.24 | 347.69 | 347.64 | 347.67 | 349.61 | 349.53 |        |        |        |        |        |        |        |        | 344.95 | 349.49 |        |        |
| 8/12 | 10:30A | 347.20 | 347.23 | 347.65 | 347.62 | 347.65 | 349.60 | 349.52 |        |        |        |        |        |        |        |        | 344.95 | 349.48 |        |        |
| 8/13 | 12:30P | 347.32 | 347.34 | 347.76 | 347.74 | 347.77 | 349.65 | 349.57 |        |        |        |        |        |        |        |        | 345.09 | 349.56 | 345.46 |        |
| 8/14 | 10:00A | 347.28 | 347.31 | 347.72 | 347.71 | 347.73 | 349.62 | 349.54 |        |        |        |        |        |        |        |        | 345.06 | 349.48 | 345.45 |        |
| 8/15 | ---    | 347.26 | 347.30 | 347.71 | 347.69 | 347.72 | 349.60 | 349.52 |        |        |        |        |        |        |        |        | 345.03 | 349.49 | 345.35 |        |
| 8/16 | 10:10A | 347.21 | 347.26 | 347.67 | 347.65 | 347.68 | 349.56 | 349.48 |        |        |        |        |        |        |        |        | 345.01 | 349.43 | 345.37 |        |
| 8/19 | 2:15P  | 347.19 | 347.24 | 347.64 | 347.64 | 347.67 | 349.54 | 349.46 |        |        |        |        |        |        |        |        | 345.00 | 349.41 | 345.30 |        |
| 8/20 | 10:45A | 347.21 | 347.28 | 347.68 | 347.65 | 347.68 | 349.52 | 349.45 |        |        |        |        |        |        |        |        | 345.13 | 349.43 | 345.31 |        |
| 8/21 | 2:20P  | 347.20 | 347.24 | 347.64 | 347.64 | 347.67 | 349.53 | 349.45 |        |        |        |        |        |        |        |        | 345.04 | 349.41 | 345.31 |        |



## MUNICIPAL AQUIFER - PREMONITORING GROUND WATER ELEVATIONS 1991

| WELL       |        | 43S    | 43D    | 44S    | 45S    | 45D    | 46S    | 46D    | 49S    | 49I    | 49D    | 50S    | 50I    | 50D    | 57S    | 57D    | K-1    | M-1    | K-2    | M-2    |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ELEV       | M.P.   | 353.58 | 353.50 | 353.06 | 354.50 | 354.04 | 354.12 | 354.24 | 378.93 | 379.16 | 379.04 | 362.82 | 362.57 | 362.67 | 365.01 | 365.23 | 355.54 | 353.91 | 355.51 | 356.27 |
| DATE       | TIME   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 8/22       | 2:15P  | 347.20 | 347.24 | 347.64 | 347.63 | 347.66 | 349.52 | 349.44 |        |        |        |        |        |        |        |        | 345.03 | 349.41 | 345.27 |        |
| 8/23       | 2:20P  | 347.14 | 347.20 | 347.58 | 347.56 | 347.74 | 349.46 | 349.39 |        |        |        |        |        |        |        |        | 344.99 | 349.35 | 345.21 |        |
| 8/27       | 9:30A  | 347.12 | 347.16 | 347.57 | 347.56 | 347.58 | 349.45 | 349.38 |        |        |        |        |        |        |        |        | 344.99 | 349.33 | 345.27 |        |
| 8/30       | ----   | 347.06 | 347.12 | 347.52 | 347.53 | 347.56 | 349.39 | 349.32 |        |        |        |        |        |        |        |        | 344.95 | 349.34 | 345.16 |        |
| 9/3        | 11:00A | 347.00 | 347.06 | 347.46 | 347.46 | 347.50 | 349.35 | 349.28 |        |        |        |        |        |        |        |        | 344.91 | 349.27 | 345.17 |        |
| 9/4        | 1:30P  | 347.00 | 346.96 | 347.47 | 347.45 | 347.49 | 349.35 | 349.28 |        |        |        |        |        |        |        |        | 344.91 | 349.23 | 345.13 |        |
| 9/6        | 10:00A | 346.95 | 347.00 | 347.40 | 347.39 | 347.42 | 349.29 | 349.22 |        |        |        |        |        |        |        |        | 344.85 | 349.17 | 345.10 |        |
| 9/13       | 10:00A | 346.88 | 346.94 | 347.33 | 347.34 | 347.37 | 349.23 | 349.15 |        |        |        |        |        |        |        |        | 344.81 | 349.11 | 344.98 |        |
| 9/20       | 11:00A | 346.99 | 346.96 | 347.35 | 347.37 | 347.40 | 349.24 | 349.15 |        |        |        |        |        |        |        |        | 344.81 | 349.13 | 344.56 |        |
| 9/23       | ----   | 346.86 | 346.87 | 347.27 | 347.23 | 347.31 | 349.15 | 349.06 |        |        |        |        |        |        |        |        |        |        |        |        |
| 9/27       | ----   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10/4       | 1:00P  | 346.94 | 346.89 | 347.29 | 347.40 | 347.26 | 349.19 | 349.10 |        |        |        |        |        |        |        |        | 344.75 | 349.12 | 344.48 |        |
| 10/8       | ----   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 10/9       | 10:30A | 346.96 | 346.90 | 347.29 | 347.33 | 347.36 | 349.18 | 349.09 |        |        |        |        |        |        |        |        | 344.76 | 349.07 | 344.51 |        |
| 10/16      | 11:30A | 347.43 | 347.20 | 347.64 | 347.62 | 347.64 | 349.60 | 349.49 |        |        |        |        |        |        |        |        | 345.05 | 349.51 | 344.91 |        |
| 10/22      | 1:30P  | 347.28 | 347.23 | 347.63 | 347.63 | 347.67 | 349.48 | 349.39 |        |        |        |        |        |        |        |        | 345.18 | 349.37 | 344.80 |        |
| 11/21      | ----   | 347.25 | 347.22 | 347.61 | 347.62 | 347.64 | 349.50 | 349.40 |        |        |        |        |        |        |        |        | 345.12 |        |        |        |
| 12/2       | 12:00P | 347.40 | 347.37 | 347.80 | 347.76 | 347.79 | 349.78 | 349.69 |        |        |        |        |        |        |        |        | 345.30 | 349.63 | 345.17 |        |
| 12/11      | 9:30A  | 347.85 | 347.76 | 348.17 | 348.16 | 348.17 | 350.14 | 350.05 |        |        |        |        |        |        |        |        | 345.69 | 350.02 | 345.61 |        |
| 12/12      | 9:00A  | 347.80 | 347.73 | 348.16 | 348.14 | 348.17 | 350.10 | 349.98 |        |        |        |        |        |        |        |        | 345.67 | 349.95 | 345.60 |        |
| 12/16-1991 | ----   | 347.77 | 347.76 | 348.16 | 348.12 | 348.14 | 350.12 | 350.03 |        |        |        |        |        |        |        |        |        |        |        |        |

## MILLER CONTAINER

## MUNICIPAL AQUIFER - PREMONITORING GROUND WATER ELEVATIONS 1991

|         |        |        |        | Mirabito |        |        | NYSDEC |        |        |        |        |        |        |  |
|---------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| WELL    |        | USGS-1 | USGS-2 | GW-1     | GW-2   | GW-4   | D-1    | D-2    | D-3    | D-4    | D-5    | D-6    | D-7    |  |
| ELEV    | M.P.   | 356.16 | 355.81 | 364.66   | 354.04 | 352.86 | 359.10 | 351.26 | 353.79 | 359.48 | 359.97 | 352.80 | 354.46 |  |
| DATE    | TIME   |        |        |          |        |        |        |        |        |        |        |        |        |  |
| 5/15/91 | 2:00P  | 348.77 | 350.30 | 347.47   | 347.23 | 346.41 |        |        |        |        |        |        |        |  |
| 5/16    | 8:00A  | 348.64 | 350.21 | 347.31   | 347.12 | 346.25 |        |        |        |        |        |        |        |  |
| 5/16    | 11:00A | 348.61 | 350.21 | 347.30   | 347.10 | 346.24 |        |        |        |        |        |        |        |  |
| 5/16    | 3:00P  | 348.61 | 350.20 | 347.27   | 347.10 | 346.22 |        |        |        |        |        |        |        |  |
| 5/17    | 10:30A | 348.53 | 350.14 | 347.12   | 347.03 | 346.06 |        |        |        |        |        |        |        |  |
| 5/17    | 4:00P  | 348.49 | 350.11 | 347.07   | 346.99 | 346.00 |        |        |        |        |        |        |        |  |
| 5/18    | 7:30A  | 348.45 | 350.08 | 347.01   | 346.95 | 345.95 |        |        |        |        |        |        |        |  |
| 5/20    | 8:00A  | 348.16 | 349.84 | 346.64   | 346.66 | 345.60 |        |        |        |        |        |        |        |  |
| 5/20    | 2:00P  | 348.14 | 349.82 | 346.60   | 346.65 | 345.60 |        |        |        |        |        |        |        |  |
| 5/21    | 8:30A  | 348.05 | 349.76 | 346.49   | 346.53 | 345.47 |        |        |        |        |        |        |        |  |
| 5/21    | 4:00P  | 348.00 | 349.72 | 346.46   | 346.52 | 345.44 |        |        |        |        |        |        |        |  |
| 5/22    | 8:00A  | 347.95 | 349.67 | 346.36   | 346.41 | 345.32 |        |        |        |        |        |        |        |  |
| 5/22    | 4:00P  | 347.92 | 349.65 | 346.33   | 346.40 | 345.30 |        |        |        |        |        |        |        |  |
| 5/23    | 8:30A  | 347.85 | 349.59 | 346.24   | 346.30 | 345.18 |        |        |        |        |        |        |        |  |
| 5/23    | 1:00P  | 347.84 | 349.59 | 346.22   | 346.28 | 345.18 |        |        |        |        |        |        |        |  |
| 5/24    | 8:30A  | 347.88 | 349.65 | 346.41   | 346.61 | 345.50 |        |        |        |        |        |        |        |  |
| 5/24    | 3:30P  | 347.93 | 349.65 | 346.45   | 346.71 | 345.56 |        |        |        |        |        |        |        |  |
| 5/25    | 1:00P  | 347.99 | 349.61 | 346.52   | 346.71 | 345.57 |        |        |        |        |        |        |        |  |
| 5/28    | 12:00P | 348.77 | 350.30 | 346.96   | 347.79 | 348.02 |        |        |        |        |        |        |        |  |
| 5/29    | 1:30P  | 348.69 | 350.22 | 347.05   | 347.63 | 347.76 |        |        |        |        |        |        |        |  |
| 5/30    | 7:00A  | 348.69 | 350.27 | 347.11   | 347.70 | 347.55 |        |        |        |        |        |        |        |  |
| 5/31    | 7:00A  | 348.69 | 350.27 | 347.14   | 347.66 | 347.45 |        |        |        |        |        |        |        |  |
| 6/03    | 3:30P  | 348.62 | 350.17 | 347.17   | 347.50 | 346.64 |        |        |        |        |        |        |        |  |
| 6/04    | 10:00A | 348.59 | 350.11 | 347.14   | 347.39 | 346.54 |        |        |        |        |        |        |        |  |
| 6/05    | 8:30A  | 348.52 | 350.01 | 347.19   | 347.40 | 346.54 |        |        |        |        |        |        |        |  |
| 6/06    | 8:00A  | 348.38 | 349.65 | 347.19   | 347.24 | 346.44 |        |        |        |        |        |        |        |  |
| 6/07    | 8:00A  | 348.44 | 350.17 | 347.22   | 347.26 | 346.41 |        |        |        |        |        |        |        |  |
| 6/10    | 8:00A  | 348.48 | 349.90 | 347.25   | 347.31 | 346.36 |        |        |        |        |        |        |        |  |
| 6/12    | 8:00A  | 348.45 | 349.88 | 347.24   | 347.35 | 346.36 |        |        |        |        |        |        |        |  |
| 6/12    | 1:30P  | 348.47 | 350.02 | 347.25   | 347.58 | 346.96 |        |        |        |        |        |        |        |  |
| 6/13    | 8:30A  | 348.64 | 350.07 | 347.34   | 347.66 | 346.99 |        |        |        |        |        |        |        |  |
| 6/13    | 2:30P  | 348.66 | 349.97 | 347.38   | 347.63 | 347.01 |        |        |        |        |        |        |        |  |
| 6/14    | 8:30A  | 348.70 | 350.05 | 347.42   | 347.56 | 346.92 |        |        |        |        |        |        |        |  |
| 6/17    | ---    |        |        |          |        |        |        |        |        |        |        |        |        |  |
| 6/18    | 6:00P  | 348.91 | 350.23 | 347.77   | 347.84 | 347.05 |        |        |        |        |        |        |        |  |
| 6/19    | 5:30P  | 349.30 | 350.08 | 348.00   | 347.89 | 347.05 |        |        |        |        |        |        |        |  |
| 6/20    | 11:00A | 348.95 | 350.21 | 347.86   | 347.78 | 346.99 |        |        |        |        |        |        |        |  |
| 6/21    | 8:30A  | 348.98 | 350.26 | 347.88   | 347.84 | 347.00 |        |        |        |        |        |        |        |  |
| 6/21    | 4:00P  | 348.98 | 350.24 | 347.87   | 347.90 | 346.97 |        |        |        |        |        |        |        |  |
| 6/22    | 12:00P | 349.03 | 350.25 | 348.04   | 348.06 | 347.14 |        |        |        |        |        |        |        |  |
| 6/23    | 12:00P | 349.11 | 350.30 | 348.16   | 348.18 | 347.26 |        |        |        |        |        |        |        |  |
| 6/24    | 8:30A  | 349.20 | 350.33 | 348.25   | 348.21 | 347.32 |        |        |        |        |        |        |        |  |
| 6/24    | 3:30P  | 349.20 | 350.27 | 348.27   | 348.10 | 347.30 |        |        |        |        |        |        |        |  |
| 6/25    | 8:00A  | 349.22 | 350.37 | 348.33   | 348.31 | 347.37 |        |        |        |        |        |        |        |  |

## MUNICIPAL AQUIFER - PREMONITORING GROUND WATER ELEVATIONS 1991

|      |        |        |        | Mirabito |        |        | NYSDEC |        |        |        |        |        |        |  |  |
|------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
| WELL |        | USGS-1 | USGS-2 | GW-1     | GW-2   | GW-4   | D-1    | D-2    | D-3    | D-4    | D-5    | D-6    | D-7    |  |  |
| ELEV | M.P.   | 356.16 | 355.81 | 364.66   | 354.04 | 352.86 | 359.10 | 351.26 | 353.79 | 359.48 | 359.97 | 352.80 | 354.46 |  |  |
| DATE | TIME   |        |        |          |        |        |        |        |        |        |        |        |        |  |  |
| 6/25 | 3:00P  | 349.25 | 350.39 | 348.38   | 348.37 | 347.44 |        |        |        |        |        |        |        |  |  |
| 6/26 | 9:00A  | 349.28 | 350.34 | 348.42   | 348.25 | 347.39 |        |        |        |        |        |        |        |  |  |
| 6/27 | 8:00A  | 349.31 | 350.40 | 348.48   | 348.36 | 347.43 |        |        |        |        |        |        |        |  |  |
| 6/28 | 9:00A  | 349.27 | 350.14 | 348.55   | 348.34 | 347.47 |        |        |        |        |        |        |        |  |  |
| 7/01 | 9:00A  | 349.21 | 350.12 | 348.65   | 348.43 | 347.50 |        |        |        |        |        |        |        |  |  |
| 7/02 | 2:30P  | 349.21 | 350.05 | 348.70   | 348.32 | 347.51 |        |        |        |        |        |        |        |  |  |
| 7/03 | 9:30A  | 349.19 | 350.09 | 348.69   | 348.48 | 347.54 |        |        |        |        |        |        |        |  |  |
| 7/05 | 9:15A  | 349.25 | 350.12 | 348.74   | 348.49 | 347.57 |        |        |        |        |        |        |        |  |  |
| 7/06 | 3:00P  | 349.27 | 350.12 | 348.77   | 348.62 | 347.62 |        |        |        |        |        |        |        |  |  |
| 7/09 | 4:30P  | 349.26 | 350.03 | 348.78   | 348.59 | 347.63 |        |        |        |        |        |        |        |  |  |
| 7/10 | 2:00P  | 349.25 | 350.09 | 348.81   | 348.56 | 347.61 |        |        |        |        |        |        |        |  |  |
| 7/11 | 3:30P  | 349.25 | 350.08 | 348.79   | 348.54 | 347.59 |        |        |        |        |        |        |        |  |  |
| 7/12 | 2:00P  | 349.25 | 350.02 | 348.80   | 348.45 | 347.58 |        |        |        |        |        |        |        |  |  |
| 7/15 | 1:00P  | 349.19 | 350.01 | 348.75   | 348.47 | 347.51 |        |        |        |        |        |        |        |  |  |
| 7/16 | 11:30A | 349.17 | 349.97 | 348.75   | 348.41 | 347.51 |        |        |        |        |        |        |        |  |  |
| 7/17 | 2:45P  | 349.18 | 350.01 | 348.78   | 348.46 | 347.52 |        |        |        |        |        |        |        |  |  |
| 7/17 | 4:10P  | 349.19 | 350.01 | 348.78   | 348.48 | 347.53 |        |        |        |        |        |        |        |  |  |
| 7/18 | 8:50A  | 349.24 | 350.07 | 348.88   | 348.64 | 347.72 |        |        |        |        |        |        |        |  |  |
| 7/18 | 2:35P  | 349.26 | 350.04 | 348.91   | 348.59 | 347.72 |        |        |        |        |        |        |        |  |  |
| 7/19 | 9:00A  | 349.28 | 349.96 | 348.97   | 348.46 | 347.72 |        |        |        |        |        |        |        |  |  |
| 7/19 | 5:00P  | 349.28 | 349.93 | 348.98   | 348.44 | 347.68 |        |        |        |        |        |        |        |  |  |
| 7/22 | 9:20A  | 349.33 | 350.08 | 349.00   | 348.63 | 347.74 |        |        |        |        |        |        |        |  |  |
| 7/23 | 9:00A  | 349.36 | 350.14 | 349.04   | 348.78 | 347.86 |        |        |        |        |        |        |        |  |  |
| 7/24 | 9:15A  | 349.39 | 350.12 | 349.04   | 348.73 | 347.83 |        |        |        |        |        |        |        |  |  |
| 7/25 | 12:00P | 349.36 | 350.09 | 349.02   | 348.78 | 347.88 |        |        |        |        |        |        |        |  |  |
| 7/26 | 10:15A | 349.29 | 349.99 | 349.03   | 348.61 | 347.81 |        |        |        |        |        |        |        |  |  |
| 7/29 | 10:10A | 349.35 | 350.04 | 349.04   | 348.79 | 347.88 |        |        |        |        |        |        |        |  |  |
| 7/30 | 12:15P | 349.33 | 350.02 | 349.06   | 348.76 | 347.87 |        |        |        |        |        |        |        |  |  |
| 7/31 | 2:00P  | 349.32 | 350.01 | 349.03   | 348.73 | 347.83 |        |        |        |        |        |        |        |  |  |
| 8/1  | 11:00A | 349.29 | 349.98 | 349.05   | 348.67 | 347.85 |        |        |        |        |        |        |        |  |  |
| 8/2  | 2:00P  | 349.29 | 349.98 | 349.03   | 348.71 | 347.81 |        |        |        |        |        |        |        |  |  |
| 8/5  | 11:00A | 349.28 | 349.98 | 348.99   | 348.76 | 347.87 |        |        |        |        |        |        |        |  |  |
| 8/6  | 11:30A | 349.24 | 349.93 | 348.96   | 348.69 | 347.83 |        |        |        |        |        |        |        |  |  |
| 8/7  | 10:00A | 349.23 | 349.92 | 348.94   | 348.74 | 347.85 |        |        |        |        |        |        |        |  |  |
| 8/8  | 2:30P  | 349.21 | 349.89 | 348.98   | 348.64 | 347.84 |        |        |        |        |        |        |        |  |  |
| 8/9  | 12:30P | 349.30 | 349.98 | 349.01   | 348.87 | 347.97 |        |        |        |        |        |        |        |  |  |
| 8/12 | 10:30A | 349.31 | 349.99 | 348.98   | 348.83 | 347.95 |        |        |        |        |        |        |        |  |  |
| 8/13 | 12:30P | 349.36 |        | 349.08   | 348.91 | 348.05 |        |        |        |        |        |        |        |  |  |
| 8/14 | 10:00A | 349.30 | 349.98 | 349.06   | 348.84 | 348.00 |        |        |        |        |        |        |        |  |  |
| 8/15 | ---    | 349.31 | 349.96 | 349.06   | 348.87 | 347.98 |        |        |        |        |        |        |        |  |  |
| 8/16 | 10:10A | 349.26 | 349.92 | 349.02   | 348.78 | 347.94 |        |        |        |        |        |        |        |  |  |
| 8/19 | 2:15P  | 349.24 | 349.89 | 348.99   | 348.76 | 347.92 |        |        |        |        |        |        |        |  |  |
| 8/20 | 10:45A | 349.23 | 349.87 | 348.98   | 348.76 | 347.92 |        |        |        |        |        |        |        |  |  |
| 8/21 | 2:20P  | 349.24 | 349.90 | 348.98   | 348.80 | 347.94 |        |        |        |        |        |        |        |  |  |

## MUNICIPAL AQUIFER - PREMONITORING GROUND WATER ELEVATIONS 1991

[illegible]

**MILLER CONTAINER  
MUNICIPAL AQUIFER STUDY  
PREMONITORING and PUMPING TEST GROUND WATER ELEVATIONS  
JANUARY - AUGUST 1992**

|       |                 |       | Miller |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------|-----------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|       | WELL            |       | SS     | 8S     | 8I     | 8D     | 10S    | 10D    | 13D    | 14S    | 14D    | 15D    | 21S    | 21D    | 23S    | 23D    | 24S    | 24D    | 25S    | 25D    |        |        |        |        |
|       | ELEV            | M.P.  | 377.38 | 368.68 | 368.12 | 368.30 | 364.41 | 363.89 | 365.27 | 380.07 | 380.19 | 369.99 | 379.26 | 379.95 | 366.49 | 366.88 | 363.54 | 363.67 | 365.98 | 368.14 |        |        |        |        |
|       | DATE TIME (AVG) |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|       | 01/03           | 09:30 | 369.62 | FROZ   | 357.26 | 356.46 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|       | 01/07           | NR    | 368.92 |        |        |        |        | 352.62 | 351.83 | 353.92 |        |        | 354.14 |        |        | 350.41 | 350.36 | 353.46 | 353.36 | 353.28 | 353.28 |        |        |        |
|       | 01/14           | 11:00 | 370.20 |        |        |        |        | 352.76 | 352.06 | 354.10 |        |        | 354.31 |        |        | 350.59 | 350.53 | 353.65 | 353.54 | 353.43 | 353.44 |        |        |        |
|       | 01/21           | 09:00 | 369.79 |        |        |        |        | 352.74 | 351.94 | 354.11 | 353.85 | 353.78 | 354.33 | 353.74 | 353.75 | 350.49 | 350.44 | 353.59 | 353.49 | 353.42 | 353.42 |        |        |        |
|       | 01/31           | 14:00 | 369.90 |        |        |        |        | 353.03 | 352.32 | 354.41 |        |        | 354.65 |        |        | 350.73 | 350.66 | 353.92 | 353.81 | 353.72 | 353.72 |        |        |        |
|       | 02/05           | 15:00 | 369.34 | 365.04 | 357.47 | 356.62 | 352.78 | 351.90 | 354.23 |        |        | 354.45 |        |        | 350.46 | 350.38 | 353.71 | 353.59 | 353.53 | 353.53 |        |        |        |        |
|       | 02/07           | 13:30 | 369.40 |        |        |        | 352.79 | 351.98 | 354.21 |        |        | 354.42 |        |        | 350.49 | 350.42 | 353.70 | 353.59 | 353.52 | 353.52 |        |        |        |        |
|       | 02/11           | 15:15 | 369.12 |        |        |        | 352.57 | 351.69 | 354.01 |        |        | 354.22 |        |        | 350.28 | 350.24 | 353.49 | 353.37 | 353.32 | 353.32 |        |        |        |        |
|       | 02/14           | 15:00 | 367.46 |        |        |        | 352.42 | 351.56 | 353.87 |        |        | 354.07 |        |        | 350.15 | 350.08 | 353.34 | 353.24 | 353.18 | 353.17 |        |        |        |        |
|       | 02/18           | 13:30 | 370.02 |        |        |        | 352.81 | 351.85 | 354.11 |        |        | 353.93 |        |        | 353.78 | 354.34 | 353.7  | 353.71 | 350.41 | 350.35 | 353.63 | 353.51 | 353.42 | 353.42 |
|       | 02/20           | 14:30 | 370.28 |        |        |        | 353.40 | 352.29 | 354.33 |        |        | 354.56 |        |        | 350.69 | 350.61 | 353.90 | 353.80 | 353.68 | 353.69 |        |        |        |        |
|       | 02/25           | 14:00 | 370.49 |        |        |        | 353.24 | 352.24 | 354.56 |        |        | 354.78 |        |        | 350.61 | 350.55 | 354.06 | 353.94 | 353.87 | 353.86 |        |        |        |        |
|       | 02/27           | 15:30 | 370.55 |        |        |        | 353.21 | 352.25 | 354.57 |        |        | 354.79 |        |        | 350.64 | 350.56 | 354.04 | 353.93 | 353.88 | 353.88 |        |        |        |        |
|       | 03/03           | 16:00 | 370.04 |        |        |        | 353.05 | 352.15 | 354.52 |        |        | 354.73 |        |        | 350.47 | 350.39 | 353.97 | 353.85 | 353.80 | 353.80 |        |        |        |        |
|       | 03/05           | 15:30 | 370.09 |        |        |        | 353.08 | 352.09 | 354.52 |        |        | 354.74 |        |        | 350.38 | 350.29 | 353.97 | 353.85 | 353.80 | 353.80 |        |        |        |        |
|       | 03/09           | 15:00 | 370.52 |        |        |        | 353.20 | 352.11 | 354.71 |        |        | 354.92 |        |        | 349.97 | 349.87 | 354.12 | 354.00 | 353.96 | 353.95 |        |        |        |        |
|       | 03/11           | 15:00 | 370.67 |        |        |        | 353.12 | 352.05 | 354.73 |        |        | 354.95 |        |        | 349.90 | 349.79 | 354.11 | 353.99 | 353.96 | 353.94 |        |        |        |        |
|       | 03/16           | 15:00 | 370.18 |        |        |        | 352.81 | 351.76 | 354.46 |        |        | 354.67 |        |        | 349.61 | 349.48 | 353.86 | 353.73 | 353.69 | 353.68 |        |        |        |        |
|       | 03/23           | 12:00 | 369.99 |        |        |        | FROZ   | 357.62 | 356.75 |        |        | 351.54 |        |        | 351.49 | 354.21 | 353.82 | 353.94 | 354.43 | 353.93 | 353.93 | 349.27 | 349.18 | 353.57 |
|       | 04/07           | 15:00 | 370.03 |        |        |        | 353.15 | 352.04 | 354.86 |        |        | 355.08 |        |        | 349.88 | 349.78 | 354.22 | 354.09 | 354.04 | 354.04 |        |        |        |        |
|       | 04/20           | 12:00 | 370.63 |        |        |        | 366.24 | 358.65 | 357.7  |        |        | 353.53 |        |        | 352.38 | 355.12 | 354.85 | 354.79 | 355.38 | 353.78 | 354.77 | 350.24 | 350.14 | 354.50 |
|       | 05/08           | 15:00 | 369.70 |        |        |        | 353.44 | 352.27 | 355.25 |        |        | 355.55 |        |        | 350.19 | 350.10 | 354.60 | 354.46 | 354.38 | 354.38 |        |        |        |        |
|       | 05/21           | 12:00 | 367.70 |        |        |        | 352.85 | 351.86 | 354.61 |        |        | 354.33 |        |        | 354.26 | 354.89 | 354.16 | 354.17 | 349.98 | 349.90 | 354.00 | 353.87 | 353.76 | 353.78 |
|       | 05/27           | NR    | 367.22 |        |        |        | 360.45 | 357.28 | 356.52 |        |        | 352.65 |        |        | 351.68 | 354.38 | 354.13 | 354.05 | 354.63 | 353.96 | 353.96 | 349.79 | 349.68 | 353.79 |
|       | 06/02           | NR    | 368.60 | 364.28 | 357.68 | 356.83 | 352.77 | 351.89 | 354.42 | 354.11 | 354.04 | 354.72 | 353.89 | 353.91 | 350.05 | 349.97 | 353.87 | 353.74 | 353.60 | 353.64 |        |        |        |        |
|       | 06/04           | NR    | 368.74 | 363.20 | 357.72 | 356.91 | 352.83 | 351.94 | 354.56 | 354.23 | 354.15 | 354.86 | 353.99 | 354.01 | 350.21 | 350.14 | 353.98 | 353.85 | 353.71 | 353.73 |        |        |        |        |
|       | 06/10           | 12:00 | 368.93 | 363.02 | 357.98 | 357.26 | 352.85 | 351.92 | 354.61 | 354.27 | 354.21 | 354.89 | 354.06 | 354.07 | 350.05 | 349.97 | 354.00 | 353.88 | 353.75 | 353.77 |        |        |        |        |
|       | 06/18           | 12:00 | 367.29 | 360.29 | 357.12 | 356.38 | 352.49 | 351.65 | 354.21 | 353.93 | 353.85 | 354.47 | 353.74 | 353.75 | 349.85 | 349.78 | 353.62 | 353.49 | 353.38 | 353.40 |        |        |        |        |
|       | 06/26           | 12:30 | 366.70 | 359.53 | 356.73 | 356.01 | 352.06 | 350.89 | 353.85 | 353.63 | 353.53 | 354.09 | 353.45 | 353.46 | 348.79 | 348.68 | 353.20 | 353.07 | 353.01 | 353.02 |        |        |        |        |
|       | 06/30           | 12:30 | 366.30 | 359.13 | 356.48 | 355.76 | 351.69 | 350.44 | 353.59 | 353.39 | 353.29 | 353.84 | 353.23 | 353.23 | 348.09 | 347.97 | 352.89 | 352.75 | 352.71 | 352.71 |        |        |        |        |
|       |                 | 07/07 | 13:30  | 365.89 | 358.45 | 356.10 | 355.36 | 351.27 | 350.04 | 353.17 | 352.98 | 352.88 | 353.41 | 352.82 | 352.82 | 347.49 | 347.38 | 352.46 | 352.33 | 352.30 | 352.31 |        |        |        |
| 07/09 |                 | 14:30 | 365.91 | 358.34 | 356.12 | 355.36 | 351.13 | 349.90 | 353.07 | 352.88 | 352.79 | 353.31 | 352.72 | 352.73 | 347.28 | 347.14 | 352.35 | 352.22 | 352.19 | 352.19 |        |        |        |        |
| 07/16 |                 | 11:00 | 367.95 | 360.70 | 356.44 | 355.55 | 350.91 | 349.75 | 352.85 | 352.60 | 352.53 | 353.13 | 352.45 | 352.47 | 346.96 | 346.81 | 352.15 | 352.01 | 351.95 | 351.97 |        |        |        |        |
| 07/21 |                 | NR    | 369.02 | 364.76 | 357.26 | 356.29 | 351.17 | 349.91 | 353.23 | 352.89 | 352.84 | 353.59 | 352.66 | 352.77 | 346.91 | 346.76 | 352.48 | 352.33 | 352.26 | 352.28 |        |        |        |        |
| 07/24 |                 | 15:15 | 369.08 | 364.50 | 357.09 | 356.13 | 351.09 | 349.82 | 353.17 | 352.88 | 352.82 | 353.49 | 352.73 | 352.74 | 346.83 | 346.68 | 352.42 | 352.26 | 352.19 | 352.21 |        |        |        |        |
| 07/28 |                 | 14:30 | 368.70 | 363.12 | 356.75 | 355.83 | 350.96 | 349.73 | 353.00 | 352.73 | 352.65 | 353.29 | 352.61 | 352.61 | 346.75 | 346.61 | 352.25 | 352.10 | 352.04 | 352.08 |        |        |        |        |
| 07/29 |                 | 10:20 | 368.54 | 363.09 | 356.69 | 355.78 | 350.93 | 349.67 | 352.95 | 352.70 | 352.60 | 353.25 | 352.57 | 352.58 | 346.72 | 346.56 | 352.20 | 352.05 | 352.01 | 352.03 |        |        |        |        |
| 07/30 |                 | 14:00 | 368.24 | 362.48 | 356.55 | 356.00 | 350.88 | 349.76 | 352.89 | 352.63 | 352.55 | 353.17 | 352.48 | 352.49 | 346.89 | 346.74 | 352.15 | 352.01 | 351.95 | 351.97 |        |        |        |        |
| 07/31 |                 | 10:40 | 368.17 | 362.52 | 356.66 | 355.75 | 350.88 | 349.70 | 352.91 | 352.64 | 352.57 | 353.19 | 352.49 | 352.49 | 347.13 | 346.70 | 352.18 | 352.05 | 351.98 | 351.98 |        |        |        |        |



**MILLER CONTAINER  
MUNICIPAL AQUIFER STUDY  
PREMONITORING and PUMPING TEST GROUND WATER ELEVATIONS  
JANUARY - AUGUST 1992**

|                 |       |            |           | Miller |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-------|------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 |       |            |           | WELL   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                 |       |            |           | SS     | 8S     | 8I     | 8D     | 10S    | 10D    | 13D    | 14S    | 14D    | 15D    | 21S    | 21D    | 23S    | 23D    | 24S    | 24D    | 25S    | 25D    |        |        |
|                 |       |            |           | ELEV   | M.P.   | 377.38 | 368.68 | 368.12 | 368.30 | 364.41 | 363.89 | 365.27 | 380.07 | 380.19 | 369.99 | 379.26 | 379.95 | 366.49 | 366.88 | 363.54 | 363.67 | 365.98 | 368.14 |
| DATE TIME (AVG) |       |            |           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Date            | Time  | START      | 08/01     | 15:30  | 368.20 | 362.56 | 356.68 | 355.78 | 350.91 | 349.72 | 352.95 | 352.66 | 352.60 | 353.23 | 352.50 | 352.52 | 347.15 | 346.73 | 352.19 | 352.07 | 352.01 | 352.01 |        |
| 08/03           | 08:00 | Phase I    | 08/03     | 08:00  | 369.53 | 363.82 | 356.86 | 355.90 | 350.88 | 349.69 | 352.91 | 352.63 | 352.57 | 353.23 | 352.50 | 352.49 | 346.77 | 346.60 | 352.14 | 352.02 | 351.98 | 351.98 |        |
|                 |       |            | 08/04     | 13:00  | 370.04 | 366.45 | 357.56 | 356.44 | 351.46 | 350.87 | 353.16 | 352.78 | 352.75 | 353.45 | 352.61 | 352.61 | 347.49 | 347.27 | 352.52 | 352.42 | 352.28 | 352.31 |        |
|                 |       |            | 08/05     | 13:20  | 370.26 | 366.21 | 357.69 | 356.60 | 351.88 | 351.15 | 353.37 | 352.98 | 352.95 | 353.60 | 352.83 | 352.84 | 347.81 | 347.61 | 352.79 | 352.68 | 352.54 | 352.59 |        |
|                 |       |            | 08/05     | 18:45  | 370.21 | 365.94 | 357.66 | 356.60 | 351.35 | 350.97 | 353.33 | 353.03 | 352.97 | 353.75 | 352.90 | 352.90 | 347.81 | 347.62 | 352.83 | 352.70 | 352.60 | 352.63 |        |
| 08/06           | 08:10 | Phase II   | 08/06     | 07:15  | 370.12 | 365.81 | 357.64 | 356.58 | 351.91 | 351.17 | 353.47 | 353.08 | 353.06 | 353.77 | 352.95 | 352.96 | 347.87 | 347.72 | 352.88 | 352.76 | 352.66 | 352.69 |        |
| 08/07           | 12:00 |            | 369.83    | 365.32 | 357.57 | 356.56 | 352.09 | 351.57 | 353.60 | 353.23 | 353.20 | 353.89 | 353.09 | 353.09 | 349.17 | 349.06 | 353.07 | 352.96 | 352.84 | 352.90 |        |        |        |
| 08/08           | 11:00 |            | 369.64    | 364.93 | 357.57 | 356.59 | 352.27 | 351.86 | 353.73 | 353.35 | 353.34 | 354.00 | 353.20 | 353.21 | 349.82 | 349.73 | 353.22 | 353.11 | 352.97 | 353.03 |        |        |        |
| 08/09           | 12:00 |            | 369.77    | 365.37 | 357.65 | 356.67 | 352.50 | 352.16 | 353.87 | 353.49 | 353.47 | 354.14 | 353.33 | 353.34 | 350.46 | 350.39 | 353.39 | 353.28 | 353.15 | 353.20 |        |        |        |
| 08/10           | 08:45 | Phase IIIB | 08/10     | 08:45  | 369.71 | 365.13 | 357.64 | 356.69 | 352.63 | 352.31 | 353.95 | 353.57 | 353.55 | 354.22 | 353.41 | 353.42 | 350.80 | 350.75 | 353.47 | 353.37 | 353.24 | 353.31 |        |
| 08/10           | 17:30 |            | 369.76    | 364.90 | 357.66 | 356.72 | 352.71 | 352.33 | 354.01 | 353.63 | 353.60 | 354.27 | 353.46 | 353.47 | 350.57 | 350.47 | 353.56 | 353.46 | 353.32 | 353.37 |        |        |        |
| 08/11           | 17:00 |            | 369.76    | 365.00 | 357.62 | 356.70 | 352.78 | 352.36 | 354.05 | 353.65 | 353.66 | 354.32 | 353.51 | 353.52 | 350.59 | 350.98 | 353.59 | 353.50 | 353.36 | 353.42 |        |        |        |
| 08/12           | 18:30 |            | 369.56    | 364.39 | 357.57 | 356.70 | 352.89 | 352.41 | 354.14 | 353.79 | 353.76 | 354.41 | 353.63 | 353.63 | 350.51 | 350.41 | 353.69 | 353.60 | 353.48 | 353.51 |        |        |        |
| 08/13           | 07:45 | Phase IVA  | 08/13     | 07:30  | 369.39 | 364.17 | 357.53 | 356.66 | 352.89 | 352.41 | 354.14 | 353.78 | 353.77 | 354.40 | 353.64 | 353.64 | 350.48 | 350.38 | 353.70 | 353.61 | 353.51 | 353.55 |        |
| 08/14           | 09:00 |            | Phase IVB | 08/14  | 06:45  | 369.26 | 364.27 | 357.56 | 356.68 | 352.93 | 352.33 | 354.12 | 353.86 | 353.84 | 354.46 | 353.72 | 353.74 | 350.04 | 349.87 | 353.76 | 353.64 | 353.55 | 353.58 |
| 08/15           | 08:00 |            |           | 369.08 | 363.78 | 357.47 | 356.65 | 352.87 | 352.21 | 354.22 | 353.90 | 353.84 | 354.49 | 353.75 | 353.75 | 349.67 | 349.52 | 353.74 | 353.63 | 353.53 | 353.57 |        |        |
| 08/16           | 10:15 |            |           | 368.96 | 363.43 | 357.45 | 356.62 | 352.83 | 352.13 | 354.23 | 353.93 | 353.90 | 354.49 | 353.80 | 353.79 | 349.49 | 349.32 | 353.72 | 353.63 | 353.54 | 353.56 |        |        |
| 08/17           | 17:30 | 368.67     |           | 363.06 | 357.36 | 356.54 | 352.75 | 352.06 | 354.17 | 353.91 | 353.85 | 354.45 | 353.77 | 353.78 | 349.35 | 349.18 | 353.68 | 353.57 | 353.51 | 353.54 |        |        |        |
| 08/19           | 08:00 | Phase V    | 08/18     | 19:15  | 368.58 | 362.85 | 357.34 | 356.55 | 352.77 | 352.06 | 354.22 | 353.94 | 353.90 | 354.46 | 353.80 | 353.81 | 349.24 | 349.08 | 353.69 | 353.58 | 353.52 | 353.54 |        |
|                 |       |            | 08/19     | 08:00  | 368.51 | 362.68 | 357.29 | 356.50 | 352.72 | 352.01 | 354.19 | 353.93 | 353.89 | 354.42 | 353.80 | 353.81 | 349.15 | 348.98 | 353.65 | 353.54 | 353.49 | 353.50 |        |
|                 |       |            | 08/20     | 14:00  | 368.18 | 362.34 | 357.14 | 356.33 | 352.25 | 350.99 | 354.00 | 353.80 | 353.73 | 354.24 | 353.69 | 353.69 | 348.42 | 348.28 | 353.33 | 353.22 | 353.19 | 353.20 |        |
|                 |       |            | 08/21     | 13:45  | 368.00 | 362.01 | 357.01 | 356.23 | 352.06 | 350.76 | 353.85 | 353.66 | 353.59 | 354.09 | 353.56 | 353.57 | 348.18 | 348.05 | 353.17 | 353.04 | 353.01 | 353.02 |        |
|                 |       |            | 08/22     | 17:00  | 367.75 | 361.70 | 356.86 | 356.12 | 351.87 | 350.52 | 353.71 | 353.49 | 353.43 | 353.94 | 353.42 | 353.45 | 347.91 | 347.83 | 353.01 | 352.89 | 352.84 | 352.75 |        |

**MILLER CONTAINER  
MUNICIPAL AQUIFER STUDY  
PREMONITORING and PUMPING TEST GROUND WATER ELEVATIONS  
JANUARY - AUGUST 1992**

|       |       |            | Miller |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------|-------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|       | WELL  |            | 28S    | 28I    | 28D    | 29S    | 29I    | 29D    | 30S    | 30I    | 30D    | 31S    | 31I    | 31D    | 32D    | 34D    | 35D    | 38S    | 39S    | 42S    |
|       | ELEV  | M.P.       | 356.94 | 357.44 | 357.04 | 355.27 | 355.37 | 355.25 | 354.11 | 354.11 | 354.07 | 355.62 | 355.67 | 356.22 | 381.31 | 385.08 | 381.36 | 373.61 | 372.26 | 354.06 |
|       | DATE  | TIME (AVO) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|       | 01/03 | 09:30      | 350.36 | 350.39 | 350.43 | 350.26 | 350.35 | 350.35 | 350.25 | 350.31 | 350.35 | 350.74 | 350.72 | 350.62 |        |        |        | 361.11 |        | 348.24 |
|       | 01/07 | NR         | 350.51 | 350.53 | 350.57 | 350.41 | 350.52 | 350.38 | 350.41 | 350.44 | 350.49 | 350.95 | 350.86 | 350.75 |        |        |        | 361.26 | 359.81 | 348.46 |
|       | 01/14 | 11:00      | 350.98 | 351.01 | 351.02 | 350.92 | 350.99 | 350.95 | 350.93 | 350.97 | 350.98 | 351.42 | 351.21 | 351.16 |        |        |        | 362.10 | 360.08 | 348.57 |
|       | 01/21 | 09:00      | 350.57 | 350.60 | 350.65 | 350.47 | 350.56 | 350.54 | 350.47 | 350.53 | 350.55 | 350.93 | 350.94 | 350.83 |        | 353.6  |        | 361.56 | 359.82 | 348.30 |
|       | 01/31 | 14:00      | 351.18 | 351.19 | 351.24 | 351.10 | 351.16 | 351.13 | 351.05 | 351.11 | 351.12 | 351.34 | 351.39 | 351.28 |        |        |        | 362.21 | 360.18 | 348.27 |
|       | 02/05 | 15:00      | 350.41 | 350.45 | 350.50 | 350.28 | 350.42 | 350.40 | 350.25 | 350.35 | 350.41 | 350.79 | 350.84 | 350.62 |        |        |        | 361.47 | 359.78 | 348.08 |
|       | 02/07 | 13:30      | 350.58 | 350.61 | 350.66 | 350.46 | 350.57 | 350.55 | 350.43 | 350.51 | 350.57 | 350.89 | 350.96 | 350.77 |        |        |        | 361.67 | 359.85 | 348.06 |
|       | 02/11 | 15:15      | 350.21 | 350.23 | 350.28 | 350.09 | 350.20 | 350.20 | 350.06 | 350.15 | 350.12 | 350.60 | 350.64 | 350.44 |        |        |        | 361.43 | 359.59 | 347.95 |
|       | 02/14 | 15:00      | 350.10 | 350.13 | 350.18 | 349.97 | 350.09 | 350.09 | 349.95 | 350.05 | 350.09 | 350.46 | 350.52 | 350.32 |        |        |        | 361.09 | 359.36 | 347.88 |
|       | 02/18 | 13:30      | 350.38 | 350.40 | 350.47 | 350.25 | 350.36 | 350.35 | 350.24 | 350.30 | 350.37 | 351.04 | 350.80 | 350.60 |        | 353.6  |        | 361.89 | 360.14 | 348.38 |
|       | 02/20 | 14:30      | 350.84 | 350.89 | 350.92 | 350.71 | 350.81 | 350.82 | 350.69 | 350.77 | 350.81 | 351.76 | 351.29 | 351.07 |        |        |        | 361.93 | 360.53 | 348.86 |
|       | 02/25 | 14:00      | 350.71 | 350.74 | 350.79 | 350.57 | 350.70 | 350.70 | 350.56 | 350.64 | 350.68 | 351.35 | 351.14 | 350.91 | 353.92 |        | 353.01 | 362.40 | 361.02 | 348.56 |
|       | 02/27 | 15:30      | 350.76 | 350.78 | 350.84 | 350.62 | 350.75 | 350.75 | 350.61 | 350.69 | 350.74 | 351.37 | 351.18 | 350.96 | 353.95 |        | 353.05 | 362.45 | 361.08 | 348.58 |
|       |       | 03/03      | 16:00  | 350.57 | 350.60 | 350.65 | 350.42 | 350.55 | 350.56 | 350.41 | 350.48 | 350.53 | 351.07 | 350.99 | 350.76 | 353.91 |        | 352.93 | 362.06 | 360.80 |
| 03/05 |       | 15:30      | 350.53 | 350.56 | 350.63 | 350.38 | 350.49 | 350.51 | 350.37 | 350.44 | 350.50 | 351.27 | 350.95 | 350.71 | 353.90 |        | 352.91 | 362.24 | 360.86 | 348.08 |
| 03/09 |       | 15:00      | 350.40 | 350.42 | 350.49 | 350.24 | 350.35 | 350.36 | 350.21 | 350.27 | 350.34 | 351.21 | 350.83 | 350.57 | 354.06 |        | 353.05 | 362.54 | 361.24 | 348.02 |
| 03/11 |       | 15:00      | 350.33 | 350.35 | 350.44 | 350.17 | 350.30 | 350.29 | 350.14 | 350.22 | 350.27 | 351.04 | 350.74 | 350.51 | 354.07 |        | 353.02 | 362.79 | 361.42 | 347.67 |
| 03/16 |       | 15:00      | 350.04 | 350.08 | 350.13 | 349.89 | 350.02 | 350.00 | 349.86 | 349.93 | 349.97 | 350.62 | 350.44 | 350.21 |        |        |        | 362.19 | 360.91 | 347.07 |
| 03/23 |       | 12:00      | 349.74 | 349.78 | 349.81 | 349.58 | 349.70 | 349.71 | 349.54 | 349.63 | 349.67 | 350.33 | 350.14 | 349.92 | 353.58 | 353.78 | 352.51 | 362.20 | 360.83 | 346.48 |
|       | 04/07 | 15:00      | 350.28 | 350.31 | 350.37 | 350.13 | 350.23 | 350.27 | 350.10 | 350.18 | 350.22 | 350.72 | 350.70 | 350.45 | 354.19 |        | 353.04 | 362.76 | 361.55 | 347.09 |
|       | 04/20 | 12:00      | 350.65 | 350.65 | 350.72 | 350.48 | 350.57 | 350.61 | 350.46 | 350.53 | 350.59 | 351.27 | 351.07 | 350.82 | 354.41 | 354.61 | 353.32 | 363.17 | 362.06 | 347.55 |
|       | 05/08 | 15:00      | 350.44 | 350.47 | 350.52 | 350.28 | 350.38 | 350.38 | 350.23 | 350.27 | 350.35 | 350.88 | 350.94 | 350.68 | 354.47 |        | 353.28 | 362.80 | 361.56 | 347.24 |
|       | 05/21 | 12:00      | 350.17 | 350.20 | 350.26 | 350.03 | 350.17 | 350.17 | 350.01 | 350.11 | 350.13 | 350.56 | 350.63 | 350.42 | 353.87 | 354.05 | 352.72 | 361.44 | 360.27 | 346.96 |
|       | 05/27 | NR         | 349.99 | 350.02 | 350.08 | 349.85 | 349.98 | 350.01 | 349.85 | 349.91 | 349.95 | 350.35 | 350.45 | 350.22 | 353.67 | 353.84 | 352.56 | 361.22 | 359.97 | 346.80 |
|       | 06/02 | NR         | 350.32 | 350.33 | 350.39 | 350.19 | 350.31 | 350.31 | 350.19 | 350.27 | 350.31 | 350.99 | 350.74 | 350.56 | 353.68 | 353.82 | 352.74 | 361.53 | 360.07 | 347.39 |
|       | 06/04 | NR         | 350.36 | 350.40 | 350.46 | 350.25 | 350.37 | 350.38 | 350.25 | 350.33 | 350.37 | 350.80 | 350.79 | 350.59 | 353.79 | 353.94 | 352.76 | 361.74 | 360.11 | 347.48 |
|       | 06/10 | 12:00      | 350.30 | 350.34 | 350.40 | 350.17 | 350.30 | 350.30 | 350.16 | 350.23 | 350.27 | 350.71 | 350.74 | 350.51 | 353.82 | 353.98 | 352.72 | 361.76 | 360.10 | 347.38 |
|       | 06/18 | 12:00      | 350.12 | 350.15 | 350.20 | 350.03 | 350.13 | 350.12 | 350.01 | 350.07 | 350.12 | 350.30 | 350.44 | 350.27 | 353.49 | 353.63 | 352.37 | 361.07 | 359.34 | 346.79 |
|       | 06/26 | 12:30      | 348.85 | 348.90 | 348.96 | 348.69 | 348.86 | 348.84 | 348.69 | 348.77 | 348.82 | 349.47 | 349.44 | 349.14 | 353.15 | 353.34 | 351.98 | 360.55 | 359.22 | 345.81 |
|       | 06/30 | 12:30      | 348.29 | 348.33 | 348.24 | 348.12 | 348.24 | 348.28 | 348.11 | 348.20 | 348.24 | 348.89 | 348.86 | 348.56 | 352.89 | 353.06 | 351.63 | 360.25 | 358.99 | 344.93 |
|       |       | 07/07      | 13:30  | 347.87 | 347.90 | 347.99 | 347.70 | 347.82 | 347.85 | 347.67 | 347.74 | 347.82 | 348.48 | 348.37 | 348.11 | 352.48 | 352.68 | 351.25 | 359.89 | 358.71 |
| 07/09 |       | 14:30      | 347.71 | 347.74 | 347.82 | 347.53 | 347.65 | 347.67 | 347.49 | 347.56 | 347.63 | 348.34 | 348.17 | 347.93 | 352.39 | 352.60 | 351.13 | 360.01 | 358.76 | 344.16 |
| 07/16 |       | 11:00      | 347.62 | 347.64 | 347.71 | 347.46 | 347.56 | 347.61 | 347.41 | 347.47 | 347.54 | 348.82 | 348.00 | 347.79 | 352.13 | 352.35 | 351.03 | 360.45 | 359.04 | 344.26 |
| 07/21 |       | NR         | 347.66 | 347.68 | 347.79 | 347.49 | 347.62 | 347.66 | 347.44 | 347.48 | 347.57 | 348.64 | 348.06 | 347.84 | 352.43 | 352.60 | 351.18 | 361.39 | 359.82 | 344.40 |
| 07/24 |       | 15:15      | 347.56 | 347.58 | 347.65 | 347.39 | 347.49 | 347.54 | 347.34 | 347.40 | 347.45 | 348.40 | 347.95 | 347.73 | 352.37 | 352.58 | 351.12 | 361.48 | 359.84 | 344.02 |
| 07/28 |       | 14:30      | 347.53 | 347.54 | 347.61 | 347.35 | 347.44 | 347.49 | 347.29 | 347.37 | 347.40 | 348.19 | 347.89 | 347.68 | 352.23 |        | 351.02 | 361.27 | 359.61 | 343.68 |
| 07/29 |       | 10:20      | 347.45 | 347.44 | 347.57 | 347.29 | 347.41 | 347.41 | 347.22 | 347.30 | 347.37 | 348.12 | 347.80 | 347.61 | 352.21 |        | 350.96 | 361.24 | 359.57 | 343.58 |
| 07/30 |       | 14:00      | 347.74 | 347.76 | 347.82 | 347.61 | 347.69 | 347.71 | 347.53 | 347.62 | 347.64 | 348.21 | 348.03 | 347.86 | 352.13 | 352.35 | 350.93 | 361.02 | 359.40 | 343.47 |
| 07/31 |       | 10:40      | 347.60 | 347.63 | 347.74 | 347.45 | 347.58 | 347.59 | 347.37 | 347.48 | 347.46 | 348.20 | 347.97 | 347.75 | 352.15 | 352.37 | 350.95 | 361.13 | 359.48 | 344.12 |



**MILLER CONTAINER  
MUNICIPAL AQUIFER STUDY  
PREMONITORING and PUMPING TEST GROUND WATER ELEVATIONS  
JANUARY - AUGUST 1992**

|       |       |            | Miller     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------|-------|------------|------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|       |       |            | WELL       |            | 28S    | 28I    | 28D    | 29S    | 29I    | 29D    | 30S    | 30I    | 30D    | 31S    | 31I    | 31D    | 32D    | 34D    | 35D    | 38S    | 39S    | 42S    |        |
|       |       |            | ELEV       | M.P.       | 356.94 | 357.44 | 357.04 | 355.27 | 355.37 | 355.25 | 354.11 | 354.11 | 354.07 | 355.62 | 355.67 | 356.22 | 381.31 | 385.08 | 381.36 | 373.61 | 372.26 | 354.06 |        |
|       |       |            | DATE       | TIME (AVG) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Date  | Time  | START      | 08/01      | 15:30      | 347.56 | 347.61 | 347.73 | 347.42 | 347.59 | 347.58 | 347.39 | 347.46 | 347.48 | 348.48 | 347.95 | 347.72 | 352.13 | 352.41 | 350.98 | 361.14 | 359.51 | 344.16 |        |
| 08/03 | 08:00 | Phase I    | 08/03      | 08:00      | 347.56 | 347.58 | 347.73 | 347.38 | 347.60 | 347.55 | 347.37 | 347.43 | 347.39 | 348.39 | 347.92 | 347.68 | 352.15 | 352.35 | 350.96 | 361.58 | 359.83 | 343.70 |        |
|       |       |            | 08/04      | 13:00      | 349.56 | 349.57 | 349.64 | 349.50 | 349.59 | 349.50 | 349.39 | 349.42 | 349.23 | 350.17 | 349.48 | 349.45 | 352.35 | 352.51 | 351.53 | 362.03 | 360.32 | 344.26 |        |
|       |       |            | 08/05      | 13:20      | 349.86 | 349.87 | 349.93 | 349.80 | 349.86 | 349.79 | 349.70 | 349.73 | 349.61 | 350.37 | 349.80 | 349.76 | 352.31 | 352.80 | 351.86 | 362.14 | 360.52 | 344.47 |        |
|       |       |            | 08/05      | 18:45      | 349.90 | 349.88 | 349.88 | 349.81 | 349.80 | 349.79 | 349.71 | 349.71 | 349.67 | 350.32 | 349.80 | 349.80 | 352.31 | 352.80 | 351.86 | 362.12 | 360.53 | 344.70 |        |
| 08/06 | 08:10 | Phase II   | 08/06      | 07:15      | 349.91 | 349.92 | 349.92 | 349.85 | 349.85 | 349.81 | 349.73 | 349.75 | 349.71 | 350.29 | 349.84 | 349.83 | 352.73 | 352.84 | 351.92 | 362.06 | 360.50 | 344.84 |        |
| 08/07 | 12:00 |            | Phase IIIA | 08/07      | 12:00  | 350.57 | 350.58 | 350.57 | 350.53 | 350.54 | 350.51 | 350.45 | 350.48 | 350.46 | 350.68 | 350.50 | 350.51 | 352.90 | 353.03 | 352.16 | 362.05 | 360.48 | 345.39 |
| 08/08 | 11:00 |            |            | 351.00     | 351.02 | 351.01 | 350.98 | 350.98 | 350.95 | 350.92 | 350.94 | 350.92 | 351.00 | 350.94 | 350.95 | 353.01 | 353.11 | 352.33 | 362.08 | 360.47 | 346.02 |        |        |
| 08/09 | 12:00 |            |            | 351.39     | 351.39 | 351.40 | 351.36 | 351.36 | 351.34 | 351.21 | 351.33 | 351.33 | 351.38 | 351.36 | 351.35 | 353.17 | 353.26 | 352.54 | 362.12 | 360.53 | 346.66 |        |        |
| 08/10 | 08:45 | Phase IIIB |            | 08/10      | 08:45  | 351.62 | 351.62 | 351.63 | 351.59 | 351.60 | 351.56 | 351.53 | 351.54 | 351.57 | 351.60 | 351.62 | 351.60 | 353.25 | 353.36 | 352.64 | 362.08 | 360.50 | 347.20 |
| 08/10 | 17:30 |            | 351.51     | 351.51     | 351.52 | 351.48 | 351.47 | 351.46 | 351.43 | 351.44 | 351.43 | 351.52 | 351.52 | 351.49 | 353.32 | 353.40 | 352.71 | 362.17 | 360.55 | 347.31 |        |        |        |
| 08/11 | 17:00 |            | 351.57     | 351.57     | 351.56 | 351.53 | 351.52 | 351.50 | 351.45 | 351.47 | 351.48 | 351.60 | 351.59 | 351.55 | 353.38 | 353.46 | 352.76 | 362.02 | 360.46 | 347.54 |        |        |        |
| 08/12 | 18:30 |            | 351.54     | 351.54     | 351.55 | 351.50 | 351.50 | 351.47 | 351.44 | 351.44 | 351.44 | 351.58 | 351.58 | 351.52 | 353.49 | 353.57 | 352.83 | 361.85 | 360.34 | 347.63 |        |        |        |
| 08/13 | 07:45 | Phase IVA  | 08/13      | 07:30      | 351.56 | 351.56 | 351.57 | 351.51 | 351.52 | 351.49 | 351.44 | 351.45 | 351.47 | 351.58 | 351.59 | 351.54 | 353.51 | 353.60 | 352.86 | 361.82 | 360.29 | 347.63 |        |
| 08/14 | 09:00 |            | Phase IVB  | 08/14      | 06:45  | 351.34 | 351.30 | 351.36 | 351.27 | 351.26 | 351.26 | 351.19 | 351.21 | 351.18 | 351.42 | 351.38 | 351.30 | 353.58 | 353.64 | 352.84 | 362.16 | 360.32 | 347.39 |
| 08/15 | 08:00 | 351.14     |            | 351.13     | 351.14 | 351.07 | 351.03 | 351.07 | 350.97 | 351.00 | 350.98 | 351.21 | 351.17 | 351.11 | 353.58 | 353.67 | 352.79 | 361.71 | 360.18 | 347.07 |        |        |        |
| 08/16 | 10:15 | 351.00     |            | 350.98     | 351.00 | 350.93 | 350.94 | 350.92 | 350.83 | 350.84 | 350.82 | 351.09 | 351.02 | 350.96 | 353.59 | 353.71 | 352.78 | 361.72 | 360.15 | 346.76 |        |        |        |
| 08/17 | 17:30 | 350.92     |            | 350.89     | 350.92 | 350.86 | 350.85 | 350.83 | 350.76 | 350.79 | 350.74 | 350.98 | 350.93 | 350.88 | 353.57 | 353.68 | 352.73 | 361.63 | 360.06 | 346.58 |        |        |        |
| 08/18 | 19:15 | 350.88     | 350.87     | 350.89     | 350.82 | 350.81 | 350.80 | 350.71 | 350.73 | 350.71 | 350.96 | 350.90 | 350.85 | 353.59 | 353.72 | 352.74 | 361.65 | 360.07 | 346.30 |        |        |        |        |
| 08/19 | 08:00 | Phase V    | 08/19      | 08:00      | 350.81 | 350.81 | 350.84 | 350.78 | 350.77 | 350.74 | 350.65 | 350.57 | 350.50 | 350.88 | 350.86 | 350.79 | 353.59 | 353.71 | 352.73 | 361.49 | 360.01 | 346.14 |        |
|       |       |            | 08/20      | 14:00      | 348.85 | 348.88 | 348.87 | 348.72 | 348.84 | 348.87 | 348.65 | 348.59 | 348.78 | 349.69 | 349.41 | 349.08 | 353.37 | 353.56 | 352.22 | 361.03 | 359.84 | 345.75 |        |
|       |       |            | 08/21      | 13:45      | 348.58 | 348.61 | 348.68 | 348.42 | 348.54 | 348.57 | 348.36 | 348.43 | 348.52 | 349.28 | 349.10 | 348.78 | 353.20 | 353.42 | 351.99 | 361.15 | 359.74 | 345.42 |        |
|       |       |            | 08/22      | 17:00      | 348.38 | 348.41 | 348.51 | 348.24 | 348.32 | 348.41 | 348.16 | 348.25 | 348.35 | 349.16 | 348.90 | 348.62 | 353.00 | 353.22 | 351.81 | 361.04 | 359.51 | 345.12 |        |

**MILLER CONTAINER  
MUNICIPAL AQUIFER STUDY  
PREMONITORING and PUMPING TEST GROUND WATER ELEVATIONS  
JANUARY - AUGUST 1992**

|       |       |            | Miller |        |        |        |        |        |        |        |        |        |        |        |        |        | FWW    |        |        |        |        |
|-------|-------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|       | WELL  |            | 43S    | 43D    | 44S    | 45S    | 45D    | 46S    | 46D    | 49S    | 49I    | 49D    | 50S    | 50I    | 50D    | 57S    | 57D    | K-1    | M-1    | K-2    | M-2    |
|       | ELEV  | M.P.       | 353.58 | 353.50 | 353.06 | 354.50 | 354.04 | 354.12 | 354.24 | 378.93 | 379.16 | 379.04 | 362.82 | 362.57 | 362.67 | 365.01 | 365.23 | 355.54 | 353.91 | 355.51 | 356.27 |
|       | DATE  | TIME (AVG) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|       | 01/03 | 09:30      | 347.86 | 347.92 | 348.35 | 348.29 | 348.32 | 350.28 | 350.19 |        |        |        |        |        |        |        |        | 345.87 | 350.08 | 345.89 |        |
|       | 01/07 | NR         | 348.02 | 348.03 | 348.48 | 348.41 | 348.44 | 350.44 | 350.32 | 351.87 | 352.02 | 352.16 | 357.18 | 352.43 | 352.39 | 348.82 | 349.12 | 345.97 | 350.33 | 346.00 |        |
|       | 01/14 | 11:00      | 348.31 | 348.24 | 348.72 | 348.61 | 348.65 | 350.82 | 350.68 | 351.97 | 352.14 | 352.30 | 356.46 | 352.62 | 352.57 | 349.04 | 349.35 | 346.16 | 350.53 | 347.98 |        |
|       | 01/21 | 09:00      | 348.04 | 348.13 | 348.57 | 348.49 | 348.52 | 350.51 | 350.41 | 352.00 | 352.14 | 352.28 | 355.91 | 352.52 | 352.48 | 349.00 | 349.29 | 346.11 | 350.35 | 346.00 |        |
|       | 01/31 | 14:00      | 348.03 | 348.11 | 348.60 | 348.46 | 348.50 | 350.82 | 350.70 | 352.21 | 352.41 | 352.56 | 356.99 | 352.84 | 352.83 | 349.07 | 349.33 | 345.90 | 350.56 | 347.51 |        |
|       | 02/05 | 15:00      | 347.85 | 347.93 | 348.40 | 348.31 | 348.36 | 350.40 | 350.28 | 352.08 | 352.20 | 352.36 | 355.53 | 352.57 | 352.55 | 348.90 | 349.17 | 345.72 | 350.22 | 343.94 |        |
|       | 02/07 | 13:30      | 347.84 | 347.93 | 348.40 | 348.30 | 348.35 | 350.48 | 350.35 | 352.06 | 352.20 | 352.37 | 355.30 | 352.59 | 352.57 | 348.91 | 349.17 | 345.72 | 350.26 | 345.18 |        |
|       | 02/11 | 15:15      | 347.68 | 347.77 | 348.22 | 348.15 | 348.19 | 350.21 | 350.09 | 351.90 | 352.01 | 352.18 | 354.69 | 352.35 | 352.34 | 348.75 | 349.01 | 345.58 | 350.04 | 343.54 |        |
|       | 02/14 | 15:00      | 347.58 | 347.67 | 348.12 | 348.05 | 348.10 | 350.10 | 350.00 | 351.76 | 351.88 | 352.05 | 354.32 | 352.21 | 352.21 | 348.64 | 348.91 | 345.48 | 349.94 | 343.42 |        |
|       | 02/18 | 13:30      | 347.93 | 347.92 | 348.38 | 348.33 | 348.37 | 350.38 | 350.26 | 351.94 | 352.10 | 352.26 | 358.96 | 352.56 | 352.52 | 348.84 | 349.11 | 345.70 | 350.19 | 343.69 |        |
|       | 02/20 | 14:30      | 348.18 | 348.03 | 348.57 | 348.51 | 348.53 | 350.76 | 350.62 | 352.12 | 352.32 | 352.48 | 359.30 | 352.93 | 352.87 | 349.02 | 349.26 | 345.47 | 350.57 | 344.20 |        |
|       | 02/25 | 14:00      | 347.88 | 347.86 | 348.39 | 348.33 | 348.37 | 350.63 | 350.49 | 352.23 | 352.40 | 352.56 | 359.04 | 352.91 | 352.87 | 348.90 | 349.14 | 345.31 | 350.37 | 344.02 | 342.90 |
|       | 02/27 | 15:30      | 347.88 | 347.89 | 348.43 | 348.34 | 348.39 | 350.67 | 350.53 | 352.25 | 352.42 | 352.58 | 358.82 | 352.91 | 352.87 | 348.93 | 349.17 | 345.33 | 350.43 | 344.16 | 343.28 |
|       |       | 03/03      | 16:00  | 347.65 | 347.69 | 348.26 | 348.14 | 348.17 | 350.48 | 350.33 | 352.16 | 352.32 | 352.47 | 357.50 | 352.78 | 352.74 | 348.75 | 348.94 | 345.22 | 350.42 | 343.87 |
| 03/05 |       | 15:30      | 347.15 | 347.04 | 347.72 | 347.76 | 347.78 | 350.39 | 350.23 | 352.14 | 352.28 | 352.45 | 358.33 | 352.78 | 352.74 | 348.48 | 348.59 | 343.25 | 350.32 | 343.78 | 342.56 |
| 03/09 |       | 15:00      | 346.39 | 346.27 | 346.97 | 346.98 | 347.02 | 350.02 | 349.82 | 352.01 | 352.17 | 352.38 | 358.86 | 352.80 | 352.75 | 347.76 | 347.89 | 342.44 | 349.72 | 343.78 | 342.83 |
| 03/11 |       | 15:00      | 346.18 | 346.12 | 346.82 | 346.78 | 346.84 | 349.98 | 349.80 | 351.97 | 352.14 | 352.34 | 358.36 | 352.75 | 352.70 | 347.63 | 347.76 | 342.28 | 349.77 | 343.65 | 342.87 |
| 03/16 |       | 15:00      | 345.68 | 345.70 | 346.42 | 346.34 | 346.40 | 349.68 | 349.50 | 351.74 | 351.89 | 352.08 | 357.04 | 352.45 | 352.41 | 347.28 | 347.40 | 341.83 | 349.52 | 343.33 | 342.31 |
| 03/23 |       | 12:00      | 345.30 | 345.36 | 346.07 | 345.98 | 346.02 | 349.32 | 349.11 | 351.47 | 351.63 | 351.83 | 356.26 | 352.17 | 352.13 | 346.97 | 347.08 | 341.52 | 349.06 | 342.99 | 341.93 |
|       | 04/07 | 15:00      | 345.92 | 345.96 | 346.69 | 346.60 | 346.65 | 349.94 | 349.75 | 352.09 | 352.25 | 352.45 | 356.38 | 352.78 | 352.74 | 347.56 | 347.68 | 342.11 | 349.72 | 343.55 | 342.73 |
|       | 04/20 | 12:00      | 346.37 | 346.38 | 347.13 | 347.02 | 347.06 | 350.32 | 350.14 | 352.40 | 352.58 | 352.79 | 358.60 | 353.13 | 353.09 | 347.86 | 348.16 |        |        |        |        |
|       | 05/08 | 15:00      | 346.52 | 346.47 | 347.18 | 347.22 | 347.22 | 349.91 | 349.65 | 352.59 | 352.73 | 352.94 | 356.12 | 353.16 | 353.11 | 348.15 | 348.25 | 342.70 | 349.45 | 343.87 | 343.19 |
|       | 05/21 | 12:00      | 346.23 | 346.24 | 346.94 | 346.86 | 346.91 | 349.96 | 349.79 | 352.20 | 352.34 | 352.56 | 353.66 | 352.64 | 352.63 | 347.82 | 347.96 | 342.42 | 349.78 | 343.45 | 342.85 |
|       | 05/27 | NR         | 345.99 | 346.00 | 346.70 | 346.62 | 346.68 | 349.78 | 349.60 | 351.99 | 352.13 | 352.36 | 353.15 | 352.42 | 352.42 | 347.59 | 347.73 | 342.15 | 349.62 | 343.21 | 342.26 |
|       | 06/02 | NR         | 347.30 | 347.50 | 347.86 | 347.06 | 347.10 | 350.18 | 350.02 | 352.09 | 352.27 | 352.49 | 354.67 | 352.60 | 352.58 | 348.12 | 348.72 | 347.47 | 350.14 | 343.68 | 342.97 |
|       | 06/04 | NR         | 347.94 | 348.25 | 348.51 | 347.92 | 348.03 | 350.35 | 350.21 | 352.19 | 352.37 | 352.58 | 354.68 | 352.69 | 352.68 | 348.58 | 349.27 | 348.30 | 350.38 | 343.68 | 343.41 |
|       | 06/10 | 12:00      | 346.36 | 346.31 | 347.00 | 346.97 | 347.01 | 350.03 | 349.86 | 352.20 | 352.36 | 352.58 | 354.44 | 352.69 | 352.67 | 347.87 | 348.00 | 342.54 | 349.87 | 344.96 | 339.79 |
|       | 06/18 | 12:00      | 346.56 | 346.59 | 347.28 | 347.14 | 347.20 | 349.87 | 349.72 | 351.88 | 352.04 | 352.26 | 353.01 | 352.34 | 352.34 | 347.81 | 348.37 | 343.40 | 349.80 | 345.70 | 348.99 |
|       | 06/26 | 12:30      | 344.49 | 344.62 | 345.27 | 345.11 | 345.17 | 348.78 | 348.58 | 351.32 | 351.42 | 351.65 | 352.36 | 351.75 | 351.74 | 346.26 | 346.18 | 341.63 | 348.52 | 340.95 | 322.87 |
|       | 06/30 | 12:30      | 343.04 | 342.97 | 343.86 | 344.05 | 344.09 | 348.07 | 347.85 | 350.86 | 350.96 | 351.20 | 352.04 | 351.33 | 351.31 | 345.39 | 345.21 | 337.07 | 347.74 | 340.26 | 322.87 |
|       |       | 07/07      | 13:30  | 342.24 | 342.23 | 343.10 | 343.20 | 343.25 | 347.53 | 347.30 | 350.25 | 350.39 | 350.63 | 351.52 | 350.84 | 350.83 | 344.66 | 344.47 | 336.86 | 347.18 | 340.08 |
| 07/09 |       | 14:30      | 341.96 | 341.98 | 342.83 | 342.92 | 342.98 | 347.34 | 347.10 | 350.06 | 350.22 | 350.46 | 351.41 | 350.70 | 350.78 | 344.42 | 344.23 | 336.55 | 347.02 | 339.81 | 322.87 |
| 07/16 |       | 11:00      | 341.59 | 341.56 | 342.46 | 342.44 | 342.52 | 347.14 | 346.88 | 349.61 | 349.84 | 350.10 | 353.05 | 350.46 | 350.44 | 342.54 | 343.75 | 336.04 | 346.82 | 339.79 | 322.87 |
| 07/21 |       | NR         | 341.29 | 341.46 | 342.34 | 342.34 | 342.42 | 347.11 | 346.86 | 349.67 | 349.94 | 350.22 | 355.26 | 350.67 | 350.65 | 343.89 | 343.51 |        |        |        |        |
| 07/24 |       | 15:15      | 341.37 | 341.42 | 342.27 | 342.24 | 342.31 | 347.02 | 346.74 | 349.59 | 349.84 | 350.12 | 354.42 | 350.57 | 350.53 | 343.82 | 343.57 | 336.06 | 346.64 | 339.85 | 322.87 |
| 07/28 |       | 14:30      | 341.22 | 341.28 | 342.16 | 342.13 | 342.20 | 346.93 | 346.68 | 349.50 | 349.75 | 350.02 | 353.44 | 350.43 | 350.41 | 343.75 | 343.51 | 335.88 | 346.59 | 340.07 | 328.93 |
| 07/29 |       | 10:20      | 341.17 | 341.24 | 342.12 | 342.09 | 342.17 | 346.83 | 346.63 | 349.48 | 349.72 | 350.00 | 353.25 | 350.40 | 350.36 | 343.73 | 343.53 | 335.74 | 346.47 | 339.95 | 329.21 |
| 07/30 |       | 14:00      | 341.64 | 341.77 | 342.61 | 342.48 | 342.55 | 347.08 | 346.83 | 349.45 | 349.70 | 349.98 | 352.98 | 350.39 | 350.37 | 344.03 | 343.86 | 336.60 | 346.74 | 342.06 | 334.95 |
| 07/31 |       | 10:40      | 341.41 | 342.03 | 342.37 | 342.30 | 342.37 | 347.01 | 346.76 | 349.47 | 349.71 | 350.01 | 352.94 | 350.41 | 350.40 | 343.93 | 343.66 | 336.42 | 346.66 | 340.58 | 330.07 |

**MILLER CONTAINER  
MUNICIPAL AQUIFER STUDY  
PREMONITORING and PUMPING TEST GROUND WATER ELEVATIONS  
JANUARY - AUGUST 1992**

|       |       |            | Miller    |            |        |        |        |        |        |        |        |        |        |        |        |        |        | FWW    |        |        |        |        |        |
|-------|-------|------------|-----------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|       |       |            | WELL      |            | 43S    | 43D    | 44S    | 45S    | 45D    | 46S    | 46D    | 49S    | 49I    | 49D    | 50S    | 50I    | 50D    | 57S    | 57D    | K-1    | M-1    | K-2    | M-2    |
|       |       |            | ELEV      | M.P.       | 353.58 | 353.50 | 353.06 | 354.50 | 354.04 | 354.12 | 354.24 | 378.93 | 379.16 | 379.04 | 362.82 | 362.57 | 362.67 | 365.01 | 365.23 | 355.54 | 353.91 | 355.51 | 356.27 |
|       |       |            | DATE      | TIME (AVG) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Date  | Time  | START      | 08/01     | 15:30      | 341.44 | 341.56 | 342.40 | 342.32 | 342.40 | 347.05 | 346.77 | 349.48 | 349.71 | 350.04 | 352.96 | 350.46 | 350.43 | 343.96 | 343.69 | 336.43 | 346.66 | 340.25 | 329.37 |
| 08/03 | 08:00 | Phase I    | 08/03     | 08:00      | 341.42 | 341.52 | 342.34 | 342.27 | 342.34 | 346.98 | 346.75 | 349.41 | 349.66 | 349.94 | 354.18 | 350.37 | 350.35 | 343.83 | 343.62 | 336.38 | 346.72 | 340.33 | 329.58 |
|       |       |            | 08/04     | 13:00      | 341.75 | 341.89 | 342.86 | 342.53 | 342.62 | 348.08 | 347.80 | 349.70 | 350.10 | 350.33 | 358.45 | 351.03 | 351.00 | 344.13 | 343.94 | 336.70 | 347.65 | 349.25 | 349.11 |
|       |       |            | 08/05     | 13:20      | 342.08 | 342.15 | 343.16 | 342.76 | 342.88 | 348.37 | 348.11 | 349.95 | 350.36 | 350.61 | 358.67 | 351.29 | 351.27 | 344.39 | 344.23 | 336.97 | 348.02 | 349.65 | 349.11 |
|       |       |            | 08/05     | 18:45      | 342.11 | 342.21 | 342.84 | 342.79 | 342.90 | 348.34 | 348.14 | 349.97 | 350.38 | 350.64 | 358.24 | 351.32 | 351.32 | 344.43 | 344.27 | 336.98 | 348.01 | 349.44 | 349.75 |
| 08/06 | 08:10 | Phase II   | 08/06     | 07:15      | 342.16 | 342.26 | 343.22 | 342.86 | 342.94 | 348.42 | 348.16 | 350.06 | 350.43 | 350.68 | 357.63 | 351.37 | 351.34 | 344.48 | 344.26 | 337.04 | 348.01 | 349.48 | 349.77 |
| 08/07 | 12:00 |            | 346.41    | 347.30     | 347.59 | 346.26 | 346.47 | 349.65 | 349.50 | 350.38 | 350.85 | 351.07 | 356.38 | 351.67 | 351.66 | 347.62 | 347.33 | 347.39 | 349.76 | 350.07 | 350.42 |        |        |
| 08/08 | 11:00 |            | 347.43    | 348.29     | 348.54 | 347.53 | 347.65 | 350.23 | 350.13 | 350.72 | 351.18 | 351.39 | 355.69 | 351.94 | 351.94 | 348.23 | 349.02 | 347.24 | 350.38 | 350.98 | 350.93 |        |        |
| 08/07 | 12:00 | Phase IIIA | 08/09     | 12:00      | 348.73 | 349.33 | 349.52 | 348.65 | 348.74 | 350.80 | 350.72 | 351.11 | 351.56 | 351.76 | 355.73 | 352.23 | 352.23 | 349.15 | 349.85 | 350.37 | 350.98 | 350.81 | 351.24 |
| 08/10 | 08:45 |            | 08/10     | 08:45      | 349.33 | 349.83 | 350.05 | 349.30 | 349.40 | 351.07 | 350.99 | 351.36 | 351.77 | 351.98 | 355.61 | 352.39 | 352.38 | 350.14 | 349.94 | 350.90 | 351.36 | 351.17 | 351.49 |
| 08/10 | 17:30 |            | 347.75    | 347.73     | 348.32 | 348.05 | 348.09 | 350.80 | 350.68 | 351.50 | 351.87 | 352.05 | 355.61 | 352.46 | 352.46 | 348.84 | 349.02 | 346.17 | 350.96 | 351.13 | 351.41 |        |        |
|       |       |            | 08/11     | 17:00      | 347.69 | 347.12 | 348.28 | 348.01 | 348.06 | 350.82 | 350.69 | 351.65 | 351.97 | 352.14 | 355.60 | 352.53 | 352.51 | 348.79 | 349.00 | 346.12 | 351.25 | 351.17 | 351.44 |
|       |       |            | 08/12     | 18:30      | 347.29 | 347.34 | 347.90 | 347.65 | 347.70 | 350.74 | 350.61 | 351.82 | 352.10 | 352.28 | 355.28 | 352.62 | 352.60 | 348.43 | 348.71 | 349.47 | 351.07 | 351.00 | 351.40 |
| 08/13 | 07:45 | Phase IVA  | 08/13     | 07:30      | 347.23 | 347.26 | 347.85 | 347.58 | 347.63 | 350.74 | 350.59 | 351.85 | 352.12 | 352.30 | 355.09 | 352.62 | 352.62 | 348.39 | 348.68 | 345.56 | 348.72 | 351.14 | 351.43 |
| 08/14 | 09:00 |            | Phase IVB | 08/14      | 06:45  | 345.45 | 345.36 | 346.23 | 346.27 | 346.29 | 350.27 | 350.09 | 351.89 | 352.07 | 352.25 | 354.91 | 352.61 | 352.59 | 347.34 | 347.33 | 341.38 | 348.07 | 350.95 |
|       |       | 08/15      |           | 08:00      | 344.61 | 344.50 | 345.48 | 345.49 | 345.52 | 349.97 | 349.78 | 351.77 | 351.97 | 352.15 | 354.69 | 352.47 | 352.49 | 346.71 | 346.67 | 340.06 | 349.45 | 350.74 | 351.02 |
|       |       | 08/16      |           | 10:15      | 344.25 | 344.17 | 345.15 | 345.09 | 345.12 | 349.78 | 349.57 | 351.67 | 351.88 | 352.08 | 354.48 | 352.44 | 352.42 | 346.38 | 346.36 | 339.78 | 349.24 | 350.59 | 350.89 |
|       |       | 08/17      |           | 17:30      | 344.12 | 344.06 | 345.14 | 344.83 | 344.88 | 349.67 | 349.46 | 351.53 | 351.75 | 351.94 | 354.20 | 352.37 | 352.35 |        |        | 339.67 | 349.17 | 350.49 | 350.79 |
|       |       | 08/18      |           | 19:15      | 343.83 | 343.75 | 344.73 | 344.60 | 344.65 | 349.59 | 349.37 | 351.48 | 351.70 | 351.91 | 354.08 | 352.34 | 352.32 | 346.05 | 345.88 | 338.39 | 349.21 | 350.47 | 350.75 |
| 08/19 | 08:00 | Phase V    | 08/19     | 08:00      | 343.71 | 343.66 | 344.62 | 344.48 | 344.51 | 349.59 | 349.37 | 351.46 | 351.67 | 351.89 | 353.98 | 352.29 | 352.30 | 345.95 | 345.79 | 338.31 | 349.11 | 349.95 | 350.75 |
|       |       |            | 08/20     | 14:00      | 343.29 | 343.12 | 344.04 | 344.13 | 344.18 | 348.48 | 348.26 | 351.14 | 351.23 | 351.41 | 353.60 | 351.74 | 351.73 | 345.58 | 345.37 | 337.88 | 348.15 | 341.18 | 322.95 |
|       |       |            | 08/21     | 13:45      | 343.01 | 342.93 | 343.79 | 343.88 | 343.93 | 348.21 | 347.98 | 350.94 | 351.03 | 351.27 | 353.38 | 351.55 | 351.52 | 345.33 | 345.13 | 337.62 | 347.87 | 341.17 | 325.35 |
|       |       |            | 08/22     | 17:00      | 342.80 | 342.67 | 343.45 | 343.62 | 343.65 | 347.99 | 347.76 | 350.67 | 350.88 | 351.09 | 353.14 | 351.36 | 351.34 | 345.11 | 344.91 | 337.39 | 347.68 | 341.01 | 323.77 |



**MILLER CONTAINER  
MUNICIPAL AQUIFER STUDY  
PREMONITORING and PUMPING TEST GROUND WATER ELEVATIONS  
JANUARY - AUGUST 1992**

|  |       |            |        |        | Mirabito |        |        | NYSDEC |        |        |        |        |         |        | NOTES                                                                                                                                                                                                                              |
|--|-------|------------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|---------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | WELL  |            | USGS-1 | USGS-2 | GW-1     | GW-2   | GW-4   | D-1    | D-2    | D-3    | D-4    | D-5    | D-6     | D-7    |                                                                                                                                                                                                                                    |
|  | ELEV  | M.P.       | 356.30 | 355.81 | 364.66   | 354.04 | 352.86 | 359.10 | 351.26 | 353.79 | 359.48 | 359.97 | 352.80  | 354.46 |                                                                                                                                                                                                                                    |
|  | DATE  | TIME (AVG) |        |        |          |        |        |        |        |        |        |        |         |        |                                                                                                                                                                                                                                    |
|  | 01/03 | 09:30      | 349.97 | 350.71 | 349.49   | 349.32 | 348.86 |        |        |        |        | 349.78 |         |        | NR indicates that the time the data were collected was not recorded.                                                                                                                                                               |
|  | 01/07 | NR         |        |        | 349.57   | 349.48 | 349.23 |        |        |        |        |        |         |        |                                                                                                                                                                                                                                    |
|  | 01/14 | 11:00      | 350.22 | 351.22 | 349.69   | 349.74 | 349.53 | 349.24 | 349.66 | 348.40 | 349.52 | 349.98 | 349.02  | 348.89 |                                                                                                                                                                                                                                    |
|  | 01/21 | 09:00      | 350.18 | 350.93 | 349.69   | 349.51 | 349.10 |        |        |        |        |        |         |        |                                                                                                                                                                                                                                    |
|  | 01/31 | 14:00      | 350.50 | 351.41 | 349.70   | 349.46 | 349.18 |        |        |        |        |        |         |        |                                                                                                                                                                                                                                    |
|  | 02/05 | 15:00      | 350.07 | 350.80 | 349.58   | 349.32 | 349.17 | 349.06 | 348.89 | 347.91 | 349.30 |        | 348.72  | 348.63 | M.P. elevation of USGS-1, prior to 06/10/92, was 356.16 feet above mean sea level (A.M.S.L.).                                                                                                                                      |
|  | 02/07 | 13:30      | 349.97 | 350.94 | 349.58   | 349.31 | 348.88 | 349.06 | 348.90 | 347.89 | 349.31 |        | 348.73  | 348.63 |                                                                                                                                                                                                                                    |
|  | 02/11 | 15:15      | 349.88 | 350.60 | 349.45   | 349.17 | 348.72 |        |        |        |        |        |         |        | Times listed for elevation data are average times during which data were collected.                                                                                                                                                |
|  | 02/14 | 15:00      | 349.77 | 350.50 | 349.36   | 349.11 | 348.64 | 348.82 | 348.68 | 347.56 | 349.06 |        | 348.48  | 348.38 |                                                                                                                                                                                                                                    |
|  | 02/18 | 13:30      | 350.06 | 350.76 | 349.52   | 349.42 | 349.30 | 349.04 | 349.19 | 348.17 | 349.31 |        | 348.17  | 348.64 |                                                                                                                                                                                                                                    |
|  | 02/20 | 14:30      | 350.42 | 351.23 | 349.67   | 349.59 | 349.51 | 349.23 | 349.70 | 348.51 | 349.53 | 349.98 | 348.98  | 348.84 |                                                                                                                                                                                                                                    |
|  | 02/25 | 14:00      | 350.28 | 351.12 | 349.62   | 349.49 | 349.35 | 349.19 | 349.30 | 348.23 | 349.42 | 349.96 | 348.81  | 348.68 |                                                                                                                                                                                                                                    |
|  | 02/27 | 15:30      | 350.32 | 351.17 | 349.65   | 349.53 | 349.32 | 349.13 | 349.24 | 348.27 | 349.42 | 349.98 | 348.82  | 348.68 |                                                                                                                                                                                                                                    |
|  | 03/03 | 16:00      | 350.12 | 350.96 | 349.47   | 349.32 | 349.04 | 348.94 | 348.94 | 347.86 | 349.22 | 349.83 | 348.62  | 348.48 | D-6 is obstructed at a depth of 7.51 feet below the measuring point (B.M.P.), at an elevation of 345.29 feet A.M.S.L.; therefore, the ground water elevation is shown as <345.29 when no water was observed above 7.51 feet B.M.P. |
|  | 03/05 | 15:30      | 350.01 | 350.95 | 349.32   | 349.12 | 348.96 | 348.77 | 349.38 | 347.04 | 349.09 | 349.73 | 348.39  | 348.22 |                                                                                                                                                                                                                                    |
|  | 03/09 | 15:00      | 349.54 | 350.86 | 348.67   | 348.72 | 348.58 | 348.08 | 348.48 | 346.21 | 348.51 | 349.16 | 347.67  | 347.46 |                                                                                                                                                                                                                                    |
|  | 03/11 | 15:00      | 349.55 | 350.82 | 348.51   | 348.58 | 348.40 | 347.89 | 348.19 | 345.93 | 348.32 | 349.01 | 347.50  | 347.26 |                                                                                                                                                                                                                                    |
|  | 03/16 | 15:00      | 349.26 | 350.51 | 348.14   | 348.18 | 347.76 | 347.45 | 347.65 | 345.48 | 347.88 |        | 347.01  | 346.83 |                                                                                                                                                                                                                                    |
|  | 03/23 | 12:00      | 348.78 | 350.22 | 347.81   | 347.84 | 347.22 | 347.10 | 347.00 | 345.12 | 347.79 |        | 346.62  | 346.46 |                                                                                                                                                                                                                                    |
|  | 04/07 | 15:00      | 349.51 | 350.74 | 348.43   | 348.34 | 347.83 | 347.72 | 347.79 | 345.76 | 348.11 | 348.91 | 347.24  | 347.06 |                                                                                                                                                                                                                                    |
|  | 04/20 | 12:00      |        |        |          |        |        | 348.08 | 348.33 | 346.20 |        |        | 347.67  | 347.47 |                                                                                                                                                                                                                                    |
|  | 05/08 | 15:00      |        | 350.91 | 349.10   | 348.68 | 348.08 | 348.36 | 347.61 |        | 348.70 | 349.57 | 347.86  | 346.69 |                                                                                                                                                                                                                                    |
|  | 05/21 | 12:00      |        | 350.58 | 348.80   | 348.34 | 347.60 | 348.03 | 347.80 | 346.05 | 348.38 | 349.30 | 347.47  | 347.34 |                                                                                                                                                                                                                                    |
|  | 05/27 | NR         |        | 350.43 | 348.60   | 348.26 | 347.54 | 347.80 | 347.29 | 345.79 | 348.16 | 349.09 | 347.24  | 347.10 |                                                                                                                                                                                                                                    |
|  | 06/02 | NR         |        | 350.74 | 348.90   | 348.75 | 348.50 | 348.12 | 347.94 | 347.05 | 348.48 | 349.35 | 347.66  | 347.50 |                                                                                                                                                                                                                                    |
|  | 06/04 | NR         |        | 350.77 | 349.15   | 349.06 | 348.46 | 348.36 | 348.07 | 347.86 | 348.65 | 349.49 | 348.09  | 347.96 |                                                                                                                                                                                                                                    |
|  | 06/10 | 12:00      | 349.69 | 350.70 | 348.86   | 348.49 | 347.82 | 348.11 | 347.75 | 346.15 | 348.46 | 349.34 | 347.57  | 347.44 |                                                                                                                                                                                                                                    |
|  | 06/18 | 12:00      | 350.43 | 350.45 | 348.68   | 348.41 | 347.60 | 347.89 | 347.40 | 346.83 | 348.20 | 349.08 | 347.49  | 347.36 |                                                                                                                                                                                                                                    |
|  | 06/26 | 12:30      | 349.31 | 349.45 | 347.54   | 347.28 | 346.34 | 346.68 | 346.12 | 343.92 | 347.16 | 348.15 | 345.94  | 345.78 |                                                                                                                                                                                                                                    |
|  | 06/30 | 12:30      | 348.90 | 348.89 | 346.70   | 346.54 | 345.33 | 345.76 | 345.22 | 342.66 | 346.32 | 347.41 | <345.29 | 344.76 |                                                                                                                                                                                                                                    |
|  | 07/07 | 13:30      | 348.32 | 348.52 | 345.85   | 346.06 | 344.61 | 344.86 | 344.48 | 341.89 | 345.43 | 346.57 | <345.29 | 343.86 |                                                                                                                                                                                                                                    |
|  | 07/09 | 14:30      | 348.09 | 348.37 | 345.61   | 345.96 | 344.52 | 344.61 | 344.32 | 341.60 | 345.19 | 346.34 | <345.29 | 343.59 |                                                                                                                                                                                                                                    |
|  | 07/16 | 11:00      | 347.46 | 348.29 | 345.05   | 345.98 | 344.97 | 344.04 | 344.34 | 341.12 | 344.64 | 345.77 | <345.29 | 343.07 |                                                                                                                                                                                                                                    |
|  | 07/21 | NR         |        |        |          |        |        |        |        |        |        |        |         |        |                                                                                                                                                                                                                                    |
|  | 07/24 | 15:15      | 347.18 | 348.25 | 344.83   | 346.79 | 344.45 | 343.83 | 343.96 | 340.99 | 344.40 | 345.52 | <345.29 | 342.84 |                                                                                                                                                                                                                                    |
|  | 07/28 | 14:30      | 347.00 | 348.19 | 344.74   | 345.60 | 344.04 | 343.74 | 343.76 | 340.89 | 344.30 | 345.43 | <345.29 | 342.76 |                                                                                                                                                                                                                                    |
|  | 07/29 | 10:20      | 346.96 | 348.11 | 344.70   | 345.54 | 343.98 | 343.71 | 343.71 | 340.85 | 344.26 | 345.40 | <345.29 | 342.72 |                                                                                                                                                                                                                                    |
|  | 07/30 | 14:00      | 346.90 | 348.34 | 344.87   | 345.70 | 344.14 | 343.87 | 343.66 | 341.38 | 344.34 | 345.45 | <345.29 | 343.00 |                                                                                                                                                                                                                                    |
|  | 07/31 | 10:40      | 346.89 | 348.28 | 344.82   | 345.77 | 344.18 | 343.84 | 343.82 | 341.01 | 344.32 | 345.47 | <345.29 | 342.91 |                                                                                                                                                                                                                                    |

**MILLER CONTAINER  
MUNICIPAL AQUIFER STUDY  
PREMONITORING and PUMPING TEST GROUND WATER ELEVATIONS  
JANUARY - AUGUST 1992**

|       |       |            |                 |       |           |        | Mirabito |        |        | NYSDEC |        |        |        |        |        |        | NOTES |        |        |        |
|-------|-------|------------|-----------------|-------|-----------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|
|       |       |            | WELL            |       | USGS-1    | USGS-2 | GW-1     | GW-2   | GW-4   | D-1    | D-2    | D-3    | D-4    | D-5    | D-6    | D-7    |       |        |        |        |
|       |       |            | ELEV            | M.P.  | 356.30    | 355.81 | 364.66   | 354.04 | 352.86 | 359.10 | 351.26 | 353.79 | 359.48 | 359.97 | 352.80 | 354.46 |       |        |        |        |
|       |       |            | DATE TIME (AVG) |       |           |        |          |        |        |        |        |        |        |        |        |        |       |        |        |        |
| Date  | Time  | START      | 08/01           | 15:30 | 346.91    | 348.31 | 344.84   | 345.78 | 344.21 | 343.88 | 343.85 | 341.03 | 344.35 | 345.51 | 345.29 | 342.93 |       |        |        |        |
| 08/03 | 08:00 | Phase I    | 08/03           | 08:00 | 346.86    | 348.29 | 344.77   | 345.75 | 344.50 | 343.80 | 343.76 | 341.07 | 344.32 | 345.41 | 345.29 | 342.86 |       |        |        |        |
|       |       |            | 08/04           | 13:00 | 347.61    | 350.23 | 344.88   | 346.32 | 346.28 | 343.92 | 344.17 | 341.39 | 344.44 | 345.43 | 345.29 | 343.05 |       |        |        |        |
|       |       |            | 08/05           | 13:20 | 347.98    | 350.23 | 345.04   | 346.39 | 346.43 | 344.10 | 344.75 | 341.29 | 344.61 | 345.62 | 345.29 | 343.29 |       |        |        |        |
|       |       |            | 08/05           | 18:45 | 348.14    | 355.81 | 345.05   | 346.41 | 346.35 | 344.15 | 344.74 | 341.65 | 344.64 | 345.69 | 345.29 | 343.34 |       |        |        |        |
| 08/06 | 08:10 | Phase II   | 08/06           | 07:15 | 348.14    | 350.25 | 345.14   | 346.39 | 346.15 | 344.21 | 344.64 | 341.72 | 344.71 | 345.72 | 345.29 | 343.38 |       |        |        |        |
| 08/07 | 12:00 | Phase IIIA | 08/07           | 12:00 | 349.41    | 350.78 | 346.77   | 348.21 | 347.57 | 345.69 | 345.56 | 346.86 | 345.76 | 346.78 | 345.29 | 345.83 |       |        |        |        |
|       |       |            | 08/08           | 11:00 | 350.81    | 351.16 | 347.79   | 348.78 | 348.17 | 347.01 | 347.08 | 347.89 | 346.86 | 347.71 | 347.31 | 347.26 |       |        |        |        |
|       |       |            | 08/09           | 12:00 | 351.37    | 351.52 | 348.79   | 349.47 | 349.05 | 348.24 | 347.82 | 348.58 | 348.03 | 348.62 | 348.40 | 348.43 |       |        |        |        |
| 08/10 | 08:45 | Phase IIIB | 08/10           | 08:45 | 351.72    | 351.73 | 349.39   | 349.81 | 349.42 | 349.00 | 348.38 | 349.23 | 348.73 | 349.22 | 349.04 | 349.18 |       |        |        |        |
|       |       |            | 08/10           | 17:30 | 351.67    | 351.65 | 349.19   | 349.20 | 348.67 | 348.78 | 348.10 | 347.57 | 348.77 | 349.27 | 348.36 | 348.37 |       |        |        |        |
|       |       |            | 08/11           | 17:00 | 351.59    | 351.71 | 349.20   | 349.20 | 348.73 | 348.76 | 348.19 | 347.53 | 348.83 | 349.40 | 348.30 | 348.32 |       |        |        |        |
|       |       |            | 08/12           | 18:30 | 351.49    | 351.70 | 349.06   | 348.94 | 348.29 | 348.53 | 347.96 | 347.10 | 348.71 | 349.37 | 348.08 | 347.99 |       |        |        |        |
|       |       |            | 08/13           | 07:45 | Phase IVA | 08/13  | 07:30    | 351.46 | 351.70 | 349.02 | 348.91 | 348.22 | 348.48 | 347.90 | 347.01 | 348.67 |       | 349.34 | 348.03 | 347.91 |
|       |       |            | 08/14           | 09:00 | Phase IVB | 08/14  | 06:45    | 351.32 | 351.53 | 348.38 | 348.15 | 347.42 | 347.82 | 347.29 | 345.10 | 348.14 |       | 348.90 | 347.07 | 346.93 |
|       |       |            | 08/15           | 08:00 | 351.13    | 351.35 | 347.79   | 347.67 | 346.77 | 347.20 | 346.54 | 344.24 | 347.64 | 348.47 | 346.37 | 346.20 |       |        |        |        |
|       |       |            | 08/16           | 10:15 | 350.92    | 351.21 | 347.51   | 347.40 | 346.42 | 346.75 | 346.12 | 343.86 | 347.24 | 348.14 | 345.96 | 345.75 |       |        |        |        |
|       |       |            | 08/17           | 17:30 | 350.73    | 351.15 | 347.17   | 347.34 | 346.36 | 346.32 | 345.83 | 343.70 | 346.84 | 347.81 | 345.29 | 345.41 |       |        |        |        |
|       |       |            | 08/18           | 19:15 | 349.66    | 351.14 | 346.98   | 347.20 | 346.12 | 346.13 | 345.72 | 343.37 | 346.66 | 347.64 | 345.29 | 345.22 |       |        |        |        |
|       |       |            | 08/19           | 08:00 | Phase V   | 08/19  | 08:00    | 349.63 | 351.05 | 346.88 | 347.11 | 345.98 | 346.02 | 345.57 | 343.26 | 346.55 |       | 347.54 | 345.29 | 345.11 |
|       |       |            | 08/20           | 14:00 | 349.36    | 349.46 | 346.62   | 346.79 | 345.60 | 345.73 | 345.30 | 342.86 | 346.29 | 347.30 | 345.29 | 344.78 |       |        |        |        |
|       |       |            | 08/21           | 13:45 | 349.14    | 349.21 | 346.41   | 346.64 | 345.38 | 345.52 | 345.11 | 342.58 | 346.08 | 347.10 | 345.29 | 344.54 |       |        |        |        |
|       |       |            | 08/22           | 17:00 | 348.93    | 349.02 | 346.15   | 346.45 | 345.14 | 345.31 | 344.90 | 342.33 | 345.87 | 346.91 | 345.29 | 344.31 |       |        |        |        |

***APPENDIX B***

***Pumping Test Data -***

***Water Levels Recorded Manually***

| notes                                                                                  | MW-5<br>MPE = 377.38 fmsl |       |                    |                 | MW-8S<br>MPE = 368.68 fmsl |       |                    |                 | MW-8I<br>MPE = 368.12 fmsl |       |                    |                 |
|----------------------------------------------------------------------------------------|---------------------------|-------|--------------------|-----------------|----------------------------|-------|--------------------|-----------------|----------------------------|-------|--------------------|-----------------|
|                                                                                        | date                      | time  | water level (fbmp) | water elevation | date                       | time  | water level (fbmp) | water elevation | date                       | time  | water level (fbmp) | water elevation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                  | 08:00 |                    |                 | 08/03/92                   | 08:00 | 4.86               | 363.82          | 08/03/92                   | 08:00 |                    |                 |
|                                                                                        |                           | 08:07 | 7.85               | 369.53          |                            | 08:00 | 4.86               | 363.82          |                            | 08:01 | 11.26              | 356.86          |
|                                                                                        |                           | 08:20 |                    |                 |                            | 08:21 | 4.85               | 363.83          |                            | 08:22 | 11.26              | 356.86          |
|                                                                                        |                           | 08:40 |                    |                 |                            | 08:40 | 4.88               | 363.80          |                            | 08:41 | 11.26              | 356.86          |
|                                                                                        |                           | 09:00 |                    |                 |                            | 08:58 | 4.86               | 363.82          |                            | 08:59 | 11.26              | 356.86          |
|                                                                                        |                           | 09:20 |                    |                 |                            | 09:19 | 4.86               | 363.82          |                            | 09:20 | 11.26              | 356.86          |
|                                                                                        |                           | 09:45 | 7.87               | 369.51          |                            | 09:39 | 4.86               | 363.82          |                            | 09:40 | 11.26              | 356.86          |
|                                                                                        |                           | 10:00 |                    |                 |                            | 10:00 |                    |                 |                            | 10:00 |                    |                 |
|                                                                                        |                           | 11:28 | 7.87               | 369.51          |                            | 11:18 | 4.88               | 363.80          |                            | 11:18 | 11.27              | 356.85          |
|                                                                                        |                           | 12:10 |                    |                 |                            | 12:10 |                    |                 |                            | 12:10 |                    |                 |
|                                                                                        | 08/04/92                  | 13:06 | 7.90               | 369.48          | 08/04/92                   | 12:55 | 4.90               | 363.78          | 08/04/92                   | 12:56 | 11.28              | 356.84          |
|                                                                                        |                           | 14:47 | 7.90               | 369.48          |                            | 14:39 | 4.93               | 363.75          |                            | 14:40 | 11.28              | 356.84          |
|                                                                                        |                           | 16:24 | 7.91               | 369.47          |                            | 16:18 | 4.99               | 363.69          |                            | 16:19 | 11.27              | 356.85          |
|                                                                                        |                           | 17:50 | 7.90               | 369.48          |                            | 18:08 | 4.05               | 364.63          |                            | 18:09 | 11.25              | 356.87          |
|                                                                                        |                           | 07:14 | 7.50               | 369.88          |                            | 07:35 | 2.51               | 366.17          |                            | 07:36 | 10.69              | 357.43          |
|                                                                                        | 08/05/92                  | 12:19 | 7.34               | 370.04          |                            | 12:32 | 2.23               | 366.45          |                            | 12:30 | 10.56              | 357.56          |
|                                                                                        |                           | 19:00 | 7.19               | 370.19          |                            | 19:12 | 2.28               | 366.40          |                            | 19:13 | 10.36              | 357.76          |
|                                                                                        |                           | 06:11 | 7.12               | 370.26          |                            | 06:30 | 2.35               | 366.33          |                            | 06:31 | 10.41              | 357.71          |
|                                                                                        |                           | 12:24 | 7.12               | 370.26          |                            | 12:34 | 2.47               | 366.21          |                            | 12:35 | 10.43              | 357.69          |
|                                                                                        |                           | 19:46 | 7.17               | 370.21          |                            | 19:07 | 2.74               | 365.94          |                            | 19:08 | 10.46              | 357.66          |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                  | 06:41 | 7.26               | 370.12          | 08/06/92                   | 06:53 | 2.87               | 365.81          | 08/06/92                   | 06:54 | 10.48              | 357.64          |
|                                                                                        |                           | 08:20 |                    |                 |                            | 08:19 | 2.89               | 365.79          |                            | 08:20 | 10.51              | 357.61          |
|                                                                                        |                           | 08:35 |                    |                 |                            | 08:32 | 2.89               | 365.79          |                            | 08:33 | 10.52              | 357.60          |
|                                                                                        |                           | 08:50 |                    |                 |                            | 08:53 | 2.89               | 365.79          |                            | 08:54 | 10.52              | 357.60          |
|                                                                                        |                           | 09:10 |                    |                 |                            | 09:14 | 2.90               | 365.78          |                            | 09:15 | 10.52              | 357.60          |
|                                                                                        |                           | 09:30 |                    |                 |                            | 09:34 | 2.90               | 365.78          |                            | 09:35 | 10.52              | 357.60          |
|                                                                                        |                           | 09:47 | 7.29               | 370.09          |                            | 09:55 | 2.91               | 365.77          |                            | 09:56 | 10.52              | 357.60          |
|                                                                                        |                           | 10:40 |                    |                 |                            | 10:40 |                    |                 |                            | 10:40 |                    |                 |
|                                                                                        |                           | 11:32 | 7.31               | 370.07          |                            | 11:30 | 2.94               |                 |                            | 11:31 | 10.52              | 357.60          |
|                                                                                        |                           | 12:20 |                    |                 |                            | 12:20 |                    |                 |                            | 12:20 |                    |                 |
|                                                                                        |                           | 13:13 | 7.33               | 370.05          |                            | 13:20 | 2.98               |                 |                            | 13:05 | 10.52              | 357.60          |
|                                                                                        |                           | 14:00 |                    |                 |                            | 14:00 |                    |                 |                            | 14:00 |                    |                 |
|                                                                                        |                           | 14:54 | 7.35               | 370.03          |                            | 15:00 | 3.05               |                 |                            | 14:55 | 10.51              | 357.61          |
|                                                                                        |                           | 15:40 |                    |                 |                            | 15:40 |                    |                 |                            | 15:40 |                    |                 |
|                                                                                        |                           | 16:31 | 7.35               | 370.03          |                            | 16:30 | 3.11               |                 |                            | 16:34 | 10.52              | 357.60          |
|                                                                                        |                           | 17:00 |                    |                 |                            | 17:00 |                    |                 |                            | 17:00 |                    |                 |
|                                                                                        |                           | 18:21 | 7.37               | 370.01          |                            | 18:20 | 3.15               |                 |                            | 18:28 | 10.49              | 357.63          |
|                                                                                        |                           | 19:10 |                    |                 |                            | 19:10 |                    |                 |                            | 19:10 |                    |                 |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                  | 07:14 | 7.50               | 369.88          | 08/07/92                   | 07:40 | 3.29               |                 | 08/07/92                   | 07:43 | 10.54              | 357.58          |
|                                                                                        |                           | 11:50 |                    |                 |                            | 11:50 |                    |                 |                            | 11:50 |                    |                 |
|                                                                                        |                           | 12:00 |                    |                 |                            | 12:05 | 3.36               | 365.32          |                            | 12:06 | 10.55              | 357.57          |
|                                                                                        |                           | 12:29 | 7.55               | 369.83          |                            | 12:35 | 3.37               | 365.31          |                            | 12:36 | 10.54              | 357.58          |
|                                                                                        |                           | 12:50 |                    |                 |                            | 12:55 | 3.38               | 365.30          |                            | 12:56 | 10.54              | 357.58          |
|                                                                                        |                           | 13:10 |                    |                 |                            | 13:15 | 3.39               | 365.29          |                            | 13:16 | 10.54              | 357.58          |
|                                                                                        |                           | 13:30 |                    |                 |                            | 13:34 | 3.40               | 365.28          |                            | 13:35 | 10.54              | 357.58          |
|                                                                                        |                           | 16:15 | 7.59               | 369.79          |                            | 16:26 | 3.50               | 365.18          |                            | 16:27 | 10.53              | 357.59          |
|                                                                                        | 08/08/92                  | 10:54 | 7.74               | 369.64          |                            | 11:06 | 3.75               | 364.93          |                            | 11:07 | 10.55              | 357.57          |
|                                                                                        |                           | 17:35 | 7.77               | 369.61          |                            | 17:44 | 3.18               | 365.50          |                            | 17:43 | 10.55              | 357.57          |
|                                                                                        | 08/09/92                  | 12:20 | 7.61               | 369.77          | 08/09/92                   | 12:38 | 3.31               | 365.37          | 08/09/92                   | 12:40 | 10.47              | 357.65          |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                  | 08:50 |                    |                 | 08/10/92                   | 08:52 | 3.55               | 365.13          | 08/10/92                   | 08:54 | 10.48              | 357.64          |
|                                                                                        |                           | 09:10 |                    |                 |                            | 09:08 | 3.55               | 365.13          |                            | 09:10 | 10.47              | 357.65          |
|                                                                                        |                           | 09:30 |                    |                 |                            | 09:32 | 3.56               | 365.12          |                            | 09:34 | 10.48              | 357.64          |
|                                                                                        |                           | 09:50 |                    |                 |                            | 09:50 | 3.56               | 365.12          |                            | 09:52 | 10.47              | 357.65          |
|                                                                                        |                           | 10:10 |                    |                 |                            | 10:09 | 3.56               | 365.12          |                            | 10:11 | 10.47              | 357.65          |
|                                                                                        |                           | 10:30 |                    |                 |                            | 10:30 | 3.57               | 365.11          |                            | 10:31 | 10.47              | 357.65          |
|                                                                                        |                           | 12:12 | 7.67               | 369.71          |                            | 12:12 | 3.60               | 365.08          |                            | 12:14 | 10.46              | 357.66          |
|                                                                                        |                           | 13:00 |                    |                 |                            | 13:00 |                    |                 |                            | 13:00 |                    |                 |
|                                                                                        |                           | 13:55 | 7.63               | 369.75          |                            | 13:51 | 3.64               | 365.04          |                            | 13:53 | 10.45              | 357.67          |
|                                                                                        |                           | 15:38 | 7.62               | 369.76          |                            | 15:32 | 3.70               | 364.98          |                            | 15:34 | 10.44              | 357.68          |
|                                                                                        |                           | 17:11 | 7.62               | 369.76          |                            | 17:11 | 3.78               | 364.90          |                            | 17:12 | 10.46              | 357.66          |



| notes                                                                             | MW-5<br>MPE = 377.38 famsl |       |                    |                 | MW-8S<br>MPE = 368.68 famsl |       |                    |                 | MW-8I<br>MPE = 368.12 famsl |       |                    |                 |
|-----------------------------------------------------------------------------------|----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|
|                                                                                   | date                       | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                   | 06:27 | 7.66               | 369.72          | 08/11/92                    | 06:00 |                    |                 | 08/11/92                    | 06:00 |                    |                 |
|                                                                                   |                            | 06:50 |                    |                 |                             | 06:52 | 3.27               | 365.41          |                             | 06:53 | 10.46              | 357.66          |
|                                                                                   |                            | 12:26 | 7.61               | 369.77          |                             | 12:40 | 3.41               | 365.27          |                             | 12:38 | 10.47              | 357.65          |
|                                                                                   |                            | 14:50 |                    |                 |                             | 14:50 |                    |                 |                             | 14:50 |                    |                 |
|                                                                                   | 08/12/92                   | 17:52 | 7.62               | 369.76          | 08/12/92                    | 17:34 | 3.68               | 365.00          | 08/12/92                    | 17:32 | 10.50              | 357.62          |
|                                                                                   |                            | 05:50 |                    |                 |                             | 05:50 |                    |                 |                             | 05:50 |                    |                 |
|                                                                                   |                            | 06:26 | 7.68               | 369.70          |                             | 06:49 | 3.95               | 364.73          |                             | 06:50 | 10.52              | 357.60          |
|                                                                                   |                            | 13:21 | 7.85               | 369.53          |                             | 13:36 | 4.11               | 364.57          |                             | 13:34 | 10.56              | 357.56          |
|                                                                                   |                            | 17:00 |                    |                 |                             | 17:00 |                    |                 |                             | 17:00 |                    |                 |
|                                                                                   |                            | 18:09 | 7.82               | 369.56          |                             | 18:23 | 4.29               | 364.39          |                             | 18:26 | 10.55              | 357.57          |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                   | 06:51 | 7.99               | 369.39          | 08/13/92                    | 07:35 | 4.51               | 364.17          | 08/13/92                    | 07:37 | 10.59              | 357.53          |
|                                                                                   |                            | 08:00 |                    |                 |                             | 08:08 | 4.51               | 364.17          |                             | 08:10 | 10.58              | 357.54          |
|                                                                                   |                            | 08:20 |                    |                 |                             | 08:27 | 4.51               | 364.17          |                             | 08:29 | 10.58              | 357.54          |
|                                                                                   |                            | 08:40 |                    |                 |                             | 08:47 | 4.51               | 364.17          |                             | 08:48 | 10.58              | 357.54          |
|                                                                                   | 08/14/92                   | 09:00 |                    |                 | 08/14/92                    | 09:06 | 4.51               | 364.17          | 08/14/92                    | 09:08 | 10.58              | 357.54          |
|                                                                                   |                            | 09:20 |                    |                 |                             | 09:26 | 4.52               | 364.16          |                             | 09:28 | 10.58              | 357.54          |
|                                                                                   |                            | 09:36 | 8.04               | 369.34          |                             | 09:40 |                    |                 |                             | 09:40 |                    |                 |
|                                                                                   |                            | 11:12 | 8.04               | 369.34          |                             | 11:17 | 4.53               | 364.15          |                             | 11:18 | 10.57              | 357.55          |
|                                                                                   |                            | 12:46 | 8.04               | 369.34          |                             | 12:53 | 4.51               | 364.17          |                             | 12:54 | 10.57              | 357.55          |
|                                                                                   |                            | 14:24 | 8.08               | 369.30          |                             | 14:30 | 4.52               | 364.16          |                             | 14:30 | 10.57              | 357.55          |
|                                                                                   |                            | 16:03 | 8.09               | 369.29          |                             | 16:11 | 4.40               | 364.28          |                             | 16:12 | 10.56              | 357.56          |
|                                                                                   |                            | 18:26 | 8.10               | 369.28          |                             | 18:34 | 4.28               | 364.40          |                             | 18:35 | 10.56              | 357.56          |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                   | 06:39 | 8.12               | 369.26          | 08/14/92                    | 07:08 | 4.41               | 364.27          | 08/14/92                    | 07:09 | 10.56              | 357.56          |
|                                                                                   |                            | 13:09 | 8.16               | 369.22          |                             | 13:26 | 4.53               | 364.15          |                             | 13:24 | 10.59              | 357.53          |
|                                                                                   |                            | 17:52 | 8.14               | 369.24          |                             | 18:02 | 4.67               | 364.01          |                             | 18:03 | 10.61              | 357.51          |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   | 08/15/92                   | 07:50 | 8.30               | 369.08          | 08/15/92                    | 08:07 | 4.90               | 363.78          | 08/15/92                    | 08:05 | 10.65              | 357.47          |
|                                                                                   |                            | 15:31 | 8.34               | 369.04          |                             | 15:41 | 5.03               | 363.65          |                             | 15:42 | 10.65              | 357.47          |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   | 08/16/92                   | 09:19 | 8.42               | 368.96          | 08/16/92                    | 09:38 | 5.25               | 363.43          | 08/16/92                    | 09:40 | 10.67              | 357.45          |
|                                                                                   |                            | 17:29 | 8.49               | 368.89          |                             | 17:41 | 5.34               | 363.34          |                             | 17:42 | 10.69              | 357.43          |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   | 08/17/92                   | 09:16 | 8.63               | 368.75          | 08/17/92                    | 09:45 | 5.53               | 363.15          | 08/17/92                    | 09:46 | 10.75              | 357.37          |
|                                                                                   |                            | 18:05 | 8.71               | 368.67          |                             | 17:53 | 5.62               | 363.06          |                             | 17:54 | 10.75              | 357.37          |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   | 08/18/92                   | 08:33 | 8.75               | 368.63          | 08/18/92                    | 08:41 | 5.74               | 362.94          | 08/18/92                    | 08:42 | 10.77              | 357.35          |
|                                                                                   |                            | 14:19 | 8.78               | 368.60          |                             | 14:31 | 5.76               | 362.92          |                             | 14:33 | 10.77              | 357.35          |
|                                                                                   |                            | 18:42 | 8.80               | 368.58          |                             | 18:51 | 5.83               | 362.85          |                             | 18:52 | 10.78              | 357.34          |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                   | 08:00 |                    |                 | 08/19/92                    | 08:00 |                    |                 | 08/19/92                    | 08:00 |                    |                 |
|                                                                                   |                            | 08:15 | 8.87               | 368.51          |                             | 08:24 | 6.00               | 362.68          |                             | 08:25 | 10.83              | 357.29          |
|                                                                                   |                            | 08:40 |                    |                 |                             | 08:40 | 6.01               | 362.67          |                             | 08:41 | 10.83              | 357.29          |
|                                                                                   |                            | 09:00 |                    |                 |                             | 09:01 | 6.01               | 362.67          |                             | 09:02 | 10.83              | 357.29          |
|                                                                                   | 08/20/92                   | 09:20 |                    |                 | 08/20/92                    | 09:20 | 6.01               | 362.67          | 08/20/92                    | 09:21 | 10.83              | 357.29          |
|                                                                                   |                            | 09:53 | 9.00               | 368.38          |                             | 09:41 | 6.01               | 362.67          |                             | 09:42 | 10.83              | 357.29          |
|                                                                                   |                            | 11:20 |                    |                 |                             | 11:15 | 6.01               | 362.67          |                             | 11:16 | 10.84              | 357.28          |
|                                                                                   |                            | 13:00 |                    |                 |                             | 12:59 | 6.01               | 362.67          |                             | 13:00 | 10.84              | 357.28          |
|                                                                                   |                            | 14:40 |                    |                 |                             | 14:39 | 6.03               | 362.65          |                             | 14:40 | 10.85              | 357.27          |
|                                                                                   |                            | 16:23 | 9.01               | 368.37          |                             | 16:17 | 6.05               | 362.63          |                             | 16:18 | 10.86              | 357.26          |
|                                                                                   |                            | 19:53 | 9.00               | 368.38          |                             | 20:10 | 6.12               | 362.56          |                             | 20:13 | 10.89              | 357.23          |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   | 08/21/92                   | 08:19 | 9.13               | 368.25          | 08/21/92                    | 08:36 | 6.29               | 362.39          | 08/21/92                    | 08:37 | 10.96              | 357.16          |
|                                                                                   |                            | 13:10 | 9.20               | 368.18          |                             | 13:47 | 6.34               | 362.34          |                             | 13:45 | 10.98              | 357.14          |
|                                                                                   |                            | 18:45 | 9.21               | 368.17          |                             | 19:01 | 6.41               | 362.27          |                             | 19:03 | 11.01              | 357.11          |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                   | 08/22/92                   | 08:25 | 9.37               | 368.01          | 08/22/92                    | 08:06 | 6.62               | 362.06          | 08/22/92                    | 08:07 | 11.10              | 357.02          |
|                                                                                   |                            | 12:08 | 9.38               | 368.00          |                             | 14:01 | 6.67               | 362.01          |                             | 14:02 | 11.11              | 357.01          |
|                                                                                   |                            | 17:54 | 9.63               | 367.75          |                             | 16:51 | 6.98               | 361.70          |                             | 16:52 | 11.26              | 356.86          |
|                                                                                   |                            |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

| notes                                                                                  | MW-8D<br>MPE = 368.30 famsl |       |                    |                 | MW-10S<br>MPE = 364.41 famsl |       |                    |                 | MW-10D<br>MPE = 363.89 famsl |       |                    |                 |
|----------------------------------------------------------------------------------------|-----------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|
|                                                                                        | date                        | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                    | 08:00 |                    |                 | 08/03/92                     | 08:00 |                    |                 | 08/03/92                     | 08:00 |                    |                 |
|                                                                                        |                             | 08:02 | 12.40              | 355.90          |                              | 08:00 |                    |                 |                              | 08:00 |                    |                 |
|                                                                                        |                             | 08:23 | 12.40              | 355.90          |                              | 08:20 |                    |                 |                              | 08:20 |                    |                 |
|                                                                                        |                             | 08:42 | 12.40              | 355.90          |                              | 08:40 |                    |                 |                              | 08:40 |                    |                 |
|                                                                                        |                             | 09:00 | 12.40              | 355.90          |                              | 09:00 |                    |                 |                              | 09:00 |                    |                 |
|                                                                                        |                             | 09:20 | 12.40              | 355.90          |                              | 09:20 |                    |                 |                              | 09:20 |                    |                 |
|                                                                                        |                             | 09:41 | 12.40              | 355.90          |                              | 09:40 |                    |                 |                              | 09:40 |                    |                 |
|                                                                                        |                             | 10:00 |                    |                 |                              | 10:00 |                    |                 |                              | 10:00 |                    |                 |
|                                                                                        |                             | 11:19 | 12.40              | 355.90          |                              | 11:20 |                    |                 |                              | 11:20 |                    |                 |
|                                                                                        |                             | 12:10 |                    |                 |                              | 12:10 |                    |                 |                              | 12:10 |                    |                 |
|                                                                                        |                             | 12:57 | 12.42              | 355.88          |                              | 13:00 |                    |                 |                              | 13:00 |                    |                 |
|                                                                                        |                             | 14:40 | 12.40              | 355.90          |                              | 14:40 |                    |                 |                              | 14:40 |                    |                 |
|                                                                                        |                             | 16:21 | 12.40              | 355.90          |                              | 16:20 |                    |                 |                              | 16:20 |                    |                 |
|                                                                                        |                             | 18:10 | 12.39              | 355.91          |                              | 18:00 |                    |                 |                              | 18:00 |                    |                 |
|                                                                                        | 08/04/92                    | 07:37 | 11.97              | 356.33          | 08/04/92                     | 07:20 |                    |                 | 08/04/92                     | 07:20 |                    |                 |
|                                                                                        |                             | 12:31 | 11.86              | 356.44          |                              | 12:20 |                    |                 |                              | 12:20 |                    |                 |
|                                                                                        |                             | 19:14 | 11.69              | 356.61          |                              | 19:00 |                    |                 |                              | 19:00 |                    |                 |
|                                                                                        | 08/05/92                    | 06:32 | 11.70              | 356.60          | 08/05/92                     | 06:40 |                    |                 | 08/05/92                     | 06:40 |                    |                 |
|                                                                                        |                             | 12:37 | 11.70              | 356.60          |                              | 12:30 |                    |                 |                              | 12:30 |                    |                 |
|                                                                                        |                             | 19:09 | 11.70              | 356.60          |                              | 19:31 | 13.06              | 351.35          |                              | 19:32 | 12.92              | 350.97          |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                    | 06:54 | 11.72              | 356.58          | 08/06/92                     | 07:10 | 12.50              | 351.91          | 08/06/92                     | 07:10 | 12.72              | 351.17          |
|                                                                                        |                             | 08:21 | 11.78              | 356.52          |                              | 08:20 |                    |                 |                              | 08:20 |                    |                 |
|                                                                                        |                             | 08:34 | 11.74              | 356.56          |                              | 08:35 |                    |                 |                              | 08:35 |                    |                 |
|                                                                                        |                             | 08:55 | 11.75              | 356.55          |                              | 08:50 |                    |                 |                              | 08:50 |                    |                 |
|                                                                                        |                             | 09:15 | 11.75              | 356.55          |                              | 09:10 |                    |                 |                              | 09:10 |                    |                 |
|                                                                                        |                             | 09:35 | 11.75              | 356.55          |                              | 09:30 |                    |                 |                              | 09:30 |                    |                 |
|                                                                                        |                             | 09:57 | 11.75              | 356.55          |                              | 09:50 |                    |                 |                              | 09:50 |                    |                 |
|                                                                                        |                             | 10:40 |                    |                 |                              | 10:40 |                    |                 |                              | 10:40 |                    |                 |
|                                                                                        |                             | 11:31 | 11.75              | 356.55          |                              | 11:44 | 12.48              | 351.93          |                              | 11:45 | 12.69              | 351.20          |
|                                                                                        |                             | 12:20 |                    |                 |                              | 12:20 |                    |                 |                              | 12:20 |                    |                 |
|                                                                                        |                             | 13:05 | 11.74              | 356.56          |                              | 13:20 |                    |                 |                              | 13:20 |                    |                 |
|                                                                                        |                             | 14:00 |                    |                 |                              | 14:00 |                    |                 |                              | 14:00 |                    |                 |
|                                                                                        |                             | 14:55 | 11.75              | 356.55          |                              | 15:00 |                    |                 |                              | 15:00 |                    |                 |
|                                                                                        |                             | 15:40 |                    |                 |                              | 15:40 |                    |                 |                              | 15:40 |                    |                 |
|                                                                                        |                             | 16:35 | 11.75              | 356.55          |                              | 16:47 | 12.47              | 351.42          |                              | 16:48 | 12.63              | 351.26          |
|                                                                                        |                             | 17:00 |                    |                 |                              | 17:00 |                    |                 |                              | 17:00 |                    |                 |
|                                                                                        |                             | 18:29 | 11.72              | 356.58          |                              | 18:34 | 12.60              | 351.81          |                              | 18:34 | 12.45              | 351.44          |
|                                                                                        |                             | 19:10 |                    |                 |                              | 19:10 |                    |                 |                              | 19:10 |                    |                 |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                    | 07:43 | 11.73              | 356.57          | 08/07/92                     | 08:01 | 12.37              | 351.52          | 08/07/92                     | 08:01 | 12.41              | 351.48          |
|                                                                                        |                             | 11:50 |                    |                 |                              | 11:50 |                    |                 |                              | 11:50 |                    |                 |
|                                                                                        |                             | 12:07 | 11.74              | 356.56          |                              | 12:00 |                    |                 |                              | 12:00 |                    |                 |
|                                                                                        |                             | 12:37 | 11.73              | 356.57          |                              | 12:37 | 12.32              | 351.57          |                              | 12:38 | 12.32              | 351.57          |
|                                                                                        |                             | 12:57 | 11.73              | 356.57          |                              | 12:50 |                    |                 |                              | 12:50 |                    |                 |
|                                                                                        |                             | 13:17 | 11.73              | 356.57          |                              | 13:10 |                    |                 |                              | 13:10 |                    |                 |
|                                                                                        |                             | 13:36 | 11.73              | 356.57          |                              | 13:30 |                    |                 |                              | 13:30 |                    |                 |
|                                                                                        | 08/08/92                    | 16:27 | 11.72              | 356.58          | 08/08/92                     | 16:45 | 12.31              | 351.58          | 08/08/92                     | 16:45 | 12.27              | 351.62          |
|                                                                                        |                             | 11:07 | 11.71              | 356.59          |                              | 11:26 | 12.14              | 351.75          |                              | 11:26 | 12.03              | 351.86          |
|                                                                                        |                             | 17:43 | 11.69              | 356.61          |                              | 18:02 | 12.10              | 351.79          |                              | 18:03 | 11.97              | 351.92          |
|                                                                                        | 08/09/92                    | 12:39 | 11.63              | 356.67          | 08/09/92                     | 13:10 | 11.91              | 351.98          | 08/09/92                     | 13:09 | 11.73              | 352.16          |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                    | 08:53 | 11.61              | 356.69          | 08/10/92                     | 09:00 | 11.78              | 352.11          | 08/10/92                     | 08:50 |                    |                 |
|                                                                                        |                             | 09:09 | 11.61              | 356.69          |                              | 09:10 |                    |                 |                              | 09:02 | 11.58              | 352.31          |
|                                                                                        |                             | 09:33 | 11.61              | 356.69          |                              | 09:30 |                    |                 |                              | 09:30 |                    |                 |
|                                                                                        |                             | 09:51 | 11.61              | 356.69          |                              | 09:50 |                    |                 |                              | 09:50 |                    |                 |
|                                                                                        |                             | 10:10 | 11.61              | 356.69          |                              | 10:10 |                    |                 |                              | 10:10 |                    |                 |
|                                                                                        |                             | 10:31 | 11.61              | 356.69          |                              | 10:30 |                    |                 |                              | 10:30 |                    |                 |
|                                                                                        |                             | 12:13 | 11.60              | 356.70          |                              | 12:10 |                    |                 |                              | 12:10 |                    |                 |
|                                                                                        |                             | 13:00 |                    |                 |                              | 13:02 | 11.72              | 352.17          |                              | 13:03 | 11.54              | 352.35          |
|                                                                                        |                             | 13:52 | 11.58              | 356.72          |                              | 13:50 |                    |                 |                              | 13:50 |                    |                 |
|                                                                                        |                             | 15:33 | 11.57              | 356.73          |                              | 15:30 |                    |                 |                              | 15:30 |                    |                 |
|                                                                                        |                             | 17:11 | 11.58              | 356.72          |                              | 16:58 | 11.70              | 352.19          |                              | 16:59 | 11.56              | 352.33          |

| notes                                                                             | MW-8D<br>MPE = 368.30 famsl |       |                    |                 | MW-10S<br>MPE = 364.41 famsl |       |                    |                 | MW-10D<br>MPE = 363.89 famsl |       |                    |                 |
|-----------------------------------------------------------------------------------|-----------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|
|                                                                                   | date                        | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                    | 06:00 |                    |                 | 08/11/92                     | 06:00 |                    |                 | 08/11/92                     | 06:00 |                    |                 |
|                                                                                   |                             | 06:54 | 11.58              | 356.72          |                              | 07:01 | 11.68              | 352.21          |                              | 07:02 | 11.55              | 352.34          |
|                                                                                   |                             | 12:39 | 11.58              | 356.72          |                              | 13:01 | 11.62              | 352.27          |                              | 13:01 | 11.51              | 352.38          |
|                                                                                   |                             | 14:50 |                    |                 |                              | 14:50 |                    |                 |                              | 14:50 |                    |                 |
|                                                                                   |                             | 17:33 | 11.60              | 356.70          |                              | 17:00 | 11.63              | 352.26          |                              | 17:01 | 11.53              | 352.36          |
|                                                                                   | 08/12/92                    | 05:50 |                    |                 | 08/12/92                     | 05:50 |                    |                 | 08/12/92                     | 05:50 |                    |                 |
|                                                                                   |                             | 06:50 | 11.60              | 356.70          |                              | 06:57 | 11.58              | 352.31          |                              | 06:58 |                    |                 |
|                                                                                   |                             | 13:36 | 11.63              | 356.67          |                              | 13:59 | 11.57              | 352.32          |                              | 13:59 |                    |                 |
|                                                                                   |                             | 17:00 |                    |                 |                              | 17:00 |                    |                 |                              | 17:00 |                    |                 |
|                                                                                   |                             | 18:25 | 11.60              | 356.70          |                              | 18:51 | 11.52              | 352.37          |                              | 18:52 |                    |                 |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                    | 07:36 | 11.64              | 356.66          | 08/13/92                     | 07:30 |                    |                 | 08/13/92                     | 07:30 |                    |                 |
|                                                                                   |                             | 08:09 | 11.63              | 356.67          |                              | 08:00 |                    |                 |                              | 08:00 |                    |                 |
|                                                                                   |                             | 08:28 | 11.64              | 356.66          |                              | 08:20 |                    |                 |                              | 08:20 |                    |                 |
|                                                                                   |                             | 08:48 | 11.63              | 356.67          |                              | 08:40 |                    |                 |                              | 08:40 |                    |                 |
|                                                                                   |                             | 09:07 | 11.63              | 356.67          |                              | 09:00 |                    |                 |                              | 09:00 |                    |                 |
|                                                                                   |                             | 09:27 | 11.63              | 356.67          |                              | 09:20 |                    |                 |                              | 09:20 |                    |                 |
|                                                                                   |                             | 09:40 |                    |                 |                              | 09:40 |                    |                 |                              | 09:40 |                    |                 |
|                                                                                   |                             | 11:20 | 11.62              | 356.68          |                              | 11:45 | 11.49              | 352.40          |                              | 11:46 | 11.49              | 352.40          |
|                                                                                   |                             | 12:55 | 11.63              | 356.67          |                              | 13:00 |                    |                 |                              | 13:00 |                    |                 |
|                                                                                   |                             | 14:31 | 11.63              | 356.67          |                              | 14:40 |                    |                 |                              | 14:40 |                    |                 |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                    | 16:13 | 11.61              | 356.69          | 08/14/92                     | 15:57 | 11.49              |                 | 08/14/92                     | 15:58 | 11.51              | 352.38          |
|                                                                                   |                             | 18:35 | 11.62              | 356.68          |                              | 18:41 | 11.48              | 352.93          |                              | 18:42 | 11.52              | 352.37          |
|                                                                                   |                             | 07:10 | 11.62              | 356.68          |                              | 07:17 | 11.48              | 352.93          |                              | 07:18 | 11.56              | 352.33          |
|                                                                                   |                             | 13:25 | 11.62              | 356.68          |                              | 13:48 | 11.47              | 352.94          |                              | 13:49 | 11.59              | 352.30          |
|                                                                                   |                             | 18:04 | 11.64              | 356.66          |                              | 18:12 | 11.50              | 352.91          |                              | 18:13 | 11.62              | 352.27          |
|                                                                                   | 08/15/92                    | 08:06 | 11.65              | 356.65          | 08/15/92                     | 08:30 | 11.54              | 352.87          | 08/15/92                     | 08:29 | 11.68              | 352.21          |
|                                                                                   |                             | 15:43 | 11.68              | 356.62          |                              | 16:03 | 11.56              | 352.85          |                              | 16:04 | 11.72              | 352.17          |
|                                                                                   | 08/16/92                    | 09:40 | 11.68              | 356.62          | 08/16/92                     | 09:30 | 11.58              | 352.83          | 08/16/92                     | 09:30 | 11.76              | 352.13          |
|                                                                                   |                             | 17:42 | 11.69              | 356.61          |                              | 17:34 | 11.59              | 352.82          |                              | 17:35 | 11.77              | 352.12          |
|                                                                                   | 08/17/92                    | 09:47 | 11.75              | 356.55          | 08/17/92                     | 09:55 | 11.61              | 352.80          | 08/17/92                     | 09:56 | 11.81              | 352.08          |
|                                                                                   |                             | 17:55 | 11.76              | 356.54          |                              | 17:33 | 11.66              | 352.75          |                              | 17:34 | 11.83              | 352.06          |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/18/92                    | 08:43 | 11.75              | 356.55          | 08/18/92                     | 09:00 | 11.64              | 352.77          | 08/18/92                     | 09:00 | 11.83              | 352.06          |
|                                                                                   |                             | 14:34 | 11.75              | 356.55          |                              | 14:24 | 11.63              | 352.78          |                              | 14:25 | 11.82              | 352.07          |
|                                                                                   |                             | 18:53 | 11.75              | 356.55          |                              | 19:10 | 11.64              | 352.77          |                              | 19:10 | 11.83              | 352.06          |
|                                                                                   | 08/19/92                    | 08:00 |                    |                 | 08/19/92                     | 07:59 | 11.69              | 352.72          | 08/19/92                     | 08:00 | 11.88              | 352.01          |
|                                                                                   |                             | 08:25 | 11.80              | 356.50          |                              | 08:31 | 11.66              | 352.75          |                              | 08:31 | 11.93              | 351.96          |
|                                                                                   |                             | 08:41 | 11.81              | 356.49          |                              | 08:50 | 11.67              | 352.74          |                              | 08:50 | 11.96              | 351.93          |
|                                                                                   |                             | 09:02 | 11.80              | 356.50          |                              | 09:06 | 11.67              | 352.74          |                              | 09:07 | 11.96              | 351.93          |
|                                                                                   |                             | 09:21 | 11.81              | 356.49          |                              | 09:27 | 11.67              | 352.74          |                              | 09:28 | 11.99              | 351.90          |
|                                                                                   |                             | 09:42 | 11.80              | 356.50          |                              | 09:48 | 11.68              | 352.73          |                              | 09:48 | 12.03              | 351.86          |
|                                                                                   |                             | 11:16 | 11.81              | 356.49          |                              | 11:13 | 11.68              | 352.73          |                              | 11:14 | 12.11              | 351.78          |
|                                                                                   |                             | 13:00 | 11.81              | 356.49          |                              | 12:57 | 11.71              | 352.70          |                              | 12:58 | 12.21              | 351.68          |
|                                                                                   |                             | 14:40 | 11.82              | 356.48          |                              | 14:38 | 11.75              | 352.66          |                              | 14:38 | 12.29              | 351.60          |
|                                                                                   |                             | 16:18 | 11.83              | 356.47          |                              | 16:15 | 11.76              | 352.65          |                              | 16:16 | 12.35              | 351.54          |
|                                                                                   | 08/20/92                    | 20:12 | 11.86              | 356.44          | 08/20/92                     | 20:00 | 11.85              | 352.56          | 08/20/92                     | 20:02 | 12.52              | 351.37          |
|                                                                                   |                             | 08:38 | 11.92              | 356.38          |                              | 08:29 | 12.06              | 352.35          |                              | 08:29 | 12.80              | 351.09          |
|                                                                                   |                             | 13:46 | 11.97              | 356.33          |                              | 13:50 | 12.16              | 352.25          |                              | 13:51 | 12.90              | 350.99          |
|                                                                                   |                             | 19:03 | 11.97              | 356.33          |                              | 18:55 | 12.17              | 352.24          |                              | 18:55 | 12.94              | 350.95          |
|                                                                                   | 08/21/92                    | 08:08 | 12.08              | 356.22          | 08/21/92                     | 07:42 | 12.32              | 352.09          | 08/21/92                     | 07:43 | 13.07              | 350.82          |
|                                                                                   |                             | 14:03 | 12.07              | 356.23          |                              | 14:11 | 12.35              | 352.06          |                              | 14:12 | 13.13              | 350.76          |
|                                                                                   | 08/22/92                    | 16:52 | 12.18              | 356.12          | 08/22/92                     | 16:42 | 12.54              | 351.87          | 08/22/92                     | 16:43 | 13.37              | 350.52          |
|                                                                                   |                             |       |                    |                 |                              |       |                    |                 |                              |       |                    |                 |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

| notes                           | MW-13D<br>MPE = 365.27 fmsl |       |                    |                 | MW-14S<br>MPE = 380.07 fmsl |       |                    |                 | MW-14D<br>MPE = 380.19 fmsl |       |                    |                 |
|---------------------------------|-----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|
|                                 | date                        | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation |
| 08/03 08:00<br>PHASE I START    | 08/03/92                    | 08:00 |                    |                 | 08/03/92                    | 08:00 |                    |                 | 08/03/92                    | 08:00 |                    |                 |
| K-2/M-2 off                     |                             | 07:56 | 12.36              |                 |                             | 08:03 | 27.44              | 352.63          |                             | 08:05 | 27.62              | 352.57          |
|                                 |                             | 08:18 | 12.34              | 352.91          |                             | 08:25 | 27.44              | 352.63          |                             | 08:26 | 27.62              | 352.57          |
|                                 |                             | 08:37 | 12.34              | 352.93          |                             | 08:44 | 27.44              | 352.63          |                             | 08:45 | 27.62              | 352.57          |
|                                 |                             | 08:56 | 12.34              | 352.93          |                             | 09:02 | 27.44              | 352.63          |                             | 09:03 | 27.62              | 352.57          |
|                                 |                             | 09:16 | 12.35              | 352.93          |                             | 09:22 | 27.44              | 352.63          |                             | 09:23 | 27.63              | 352.56          |
|                                 |                             | 09:36 | 12.34              | 352.92          |                             | 09:42 | 27.44              | 352.63          |                             | 09:43 | 27.62              | 352.57          |
|                                 |                             | 10:00 |                    |                 |                             | 10:00 |                    |                 |                             | 10:00 |                    |                 |
|                                 |                             | 11:20 |                    |                 |                             | 11:21 | 27.44              | 352.63          |                             | 11:22 | 27.62              | 352.57          |
|                                 |                             | 12:10 |                    |                 |                             | 12:10 |                    |                 |                             | 12:10 |                    |                 |
|                                 |                             | 12:52 | 12.34              | 365.27          |                             | 12:58 | 27.44              | 352.63          |                             | 12:59 | 27.62              | 352.57          |
|                                 |                             | 14:37 | 12.34              | 352.93          |                             | 14:42 | 27.44              | 352.63          |                             | 14:42 | 27.60              | 352.59          |
|                                 |                             | 16:16 | 12.34              | 352.93          |                             | 16:22 | 27.44              | 352.63          |                             | 16:23 | 27.62              | 352.57          |
|                                 |                             | 18:12 | 12.31              | 352.93          |                             | 18:02 | 27.42              | 352.65          |                             | 18:02 | 27.60              | 352.59          |
|                                 | 08/04/92                    | 07:41 | 12.17              | 352.96          | 08/04/92                    | 07:33 | 27.34              | 352.73          | 08/04/92                    | 07:34 | 27.50              | 352.69          |
|                                 |                             | 12:27 | 12.11              | 353.10          |                             | 12:25 | 27.29              | 352.78          |                             | 12:26 | 27.44              | 352.75          |
|                                 |                             | 19:17 | 12.04              | 353.16          |                             | 19:09 | 27.26              | 352.81          |                             | 19:10 | 27.40              | 352.79          |
|                                 | 08/05/92                    | 06:26 | 11.96              | 353.23          | 08/05/92                    | 06:35 | 27.17              | 352.90          | 08/05/92                    | 06:36 | 27.30              | 352.89          |
|                                 |                             | 12:40 | 11.90              | 353.31          |                             | 12:31 | 27.09              | 352.98          |                             | 12:32 | 27.24              | 352.95          |
|                                 |                             | 19:04 | 11.84              | 353.37          |                             | 19:11 | 27.04              | 353.03          |                             | 19:12 | 27.22              | 352.97          |
| 08/06 08:10<br>PHASE II START   | 08/06/92                    | 06:57 | 11.80              | 353.47          | 08/06/92                    | 06:50 | 26.99              | 353.08          | 08/06/92                    | 06:51 | 27.13              | 353.06          |
| K-1 off<br>K-2/M-2 off          |                             | 08:15 | 11.82              | 353.45          |                             | 08:25 | 27.02              | 353.05          |                             | 08:26 | 27.15              | 353.04          |
|                                 |                             | 08:30 | 11.82              | 353.45          |                             | 08:37 | 27.02              | 353.05          |                             | 08:38 | 27.15              | 353.04          |
|                                 |                             | 08:50 | 11.82              | 353.45          |                             | 09:00 | 27.02              | 353.05          |                             | 09:01 | 27.15              | 353.04          |
|                                 |                             | 09:12 | 11.82              | 353.45          |                             | 09:20 | 27.02              | 353.05          |                             | 09:21 | 27.15              | 353.04          |
|                                 |                             | 09:31 | 11.82              | 353.45          |                             | 09:40 | 27.02              | 353.05          |                             | 09:41 | 27.15              | 353.04          |
|                                 |                             | 09:53 | 11.82              | 353.45          |                             | 10:01 | 27.02              | 353.05          |                             | 10:02 | 27.14              | 353.05          |
|                                 |                             | 10:40 |                    |                 |                             | 10:40 |                    |                 |                             | 10:40 |                    |                 |
|                                 |                             | 11:27 | 11.80              | 353.47          |                             | 11:37 | 27.00              | 353.07          |                             | 11:38 | 27.12              | 353.07          |
|                                 |                             | 12:20 |                    |                 |                             | 12:20 |                    |                 |                             | 12:20 |                    |                 |
|                                 |                             | 13:01 | 11.78              | 353.49          |                             | 13:10 | 26.96              | 353.11          |                             | 13:11 | 27.10              | 353.09          |
|                                 |                             | 14:00 |                    |                 |                             | 14:00 |                    |                 |                             | 14:00 |                    |                 |
|                                 |                             | 14:58 | 11.76              | 353.51          |                             | 14:52 | 26.96              | 353.11          |                             | 14:53 | 27.11              | 353.08          |
|                                 |                             | 15:40 |                    |                 |                             | 15:40 |                    |                 |                             | 15:40 |                    |                 |
|                                 |                             | 16:37 | 11.76              | 353.51          |                             | 16:30 | 26.96              | 353.11          |                             | 16:31 | 27.10              | 353.09          |
|                                 |                             | 17:00 |                    |                 |                             | 17:00 |                    |                 |                             | 17:00 |                    |                 |
|                                 |                             | 18:30 | 11.73              | 353.54          |                             | 18:25 | 26.92              | 353.15          |                             | 18:25 | 27.05              | 353.14          |
|                                 |                             | 19:10 |                    |                 |                             | 19:10 |                    |                 |                             | 19:10 |                    |                 |
| 08/07 12:15<br>PHASE IIIA START | 08/07/92                    | 07:46 | 11.68              | 353.59          | 08/07/92                    | 07:40 | 26.86              | 353.21          | 08/07/92                    | 07:40 | 27.00              | 353.19          |
| K-1 on/off<br>intermittently    |                             | 11:50 |                    |                 |                             | 11:50 |                    |                 |                             | 11:50 |                    |                 |
|                                 |                             | 12:02 | 11.67              | 353.60          |                             | 12:14 | 26.84              | 353.23          |                             | 12:13 | 26.99              | 353.20          |
|                                 |                             | 12:32 | 11.66              | 353.61          |                             | 12:45 | 26.84              | 353.23          |                             | 12:44 | 26.98              | 353.21          |
|                                 |                             | 12:51 | 11.66              | 353.61          |                             | 13:04 | 26.84              | 353.23          |                             | 13:03 | 26.98              | 353.21          |
|                                 |                             | 13:11 | 11.66              | 353.61          |                             | 13:25 | 26.83              | 353.24          |                             | 13:23 | 26.97              | 353.22          |
|                                 |                             | 13:31 | 11.66              | 353.61          |                             | 13:43 | 26.83              | 353.24          |                             | 13:42 | 26.97              | 353.22          |
|                                 |                             | 16:30 | 11.63              | 353.64          |                             | 16:23 | 26.81              | 353.26          |                             | 16:24 | 26.95              | 353.24          |
| K-2/M-2 off                     | 08/08/92                    | 11:10 | 11.54              | 353.73          | 08/08/92                    | 11:04 | 26.72              | 353.35          | 08/08/92                    | 11:04 | 26.85              | 353.34          |
|                                 |                             | 17:39 | 11.51              | 353.76          |                             | 17:37 | 26.68              | 353.39          |                             | 17:38 | 26.82              | 353.37          |
|                                 | 08/09/92                    | 12:45 | 11.40              | 353.87          | 08/09/92                    | 12:32 | 26.58              | 353.49          | 08/09/92                    | 12:35 | 26.72              | 353.47          |
| 08/10 08:45<br>PHASE IIIB START | 08/10/92                    | 08:48 | 11.32              | 353.95          | 08/10/92                    | 09:02 | 26.50              | 353.57          | 08/10/92                    | 09:01 | 26.64              | 353.55          |
| K-1 on 312gpm<br>K-2/M-2 off    |                             | 09:05 | 11.32              | 353.95          |                             | 09:16 | 26.49              | 353.58          |                             | 09:15 | 26.63              | 353.56          |
|                                 |                             | 09:30 | 11.32              | 353.95          |                             | 09:40 | 26.49              | 353.58          |                             | 09:39 | 26.63              | 353.56          |
|                                 |                             | 09:48 | 11.31              | 353.96          |                             | 09:58 | 26.49              | 353.58          |                             | 09:57 | 26.63              | 353.56          |
|                                 |                             | 10:06 | 11.31              | 353.96          |                             | 10:16 | 26.49              | 353.58          |                             | 10:16 | 26.63              | 353.56          |
|                                 |                             | 10:27 | 11.31              | 353.96          |                             | 10:37 | 26.48              | 353.59          |                             | 10:37 | 26.63              | 353.56          |
|                                 |                             | 12:17 | 11.29              | 353.98          |                             | 12:10 | 26.47              | 353.60          |                             | 12:09 | 26.61              | 353.58          |
|                                 |                             | 13:03 |                    |                 |                             | 13:00 |                    |                 |                             | 13:00 |                    |                 |
|                                 |                             | 13:56 | 11.26              | 354.01          |                             | 13:50 | 26.46              | 353.61          |                             | 13:49 | 26.60              | 353.59          |
|                                 |                             | 15:39 | 11.27              | 354.00          |                             | 15:27 | 26.44              | 353.63          |                             | 15:26 | 26.59              | 353.60          |
|                                 |                             | 17:16 | 11.26              | 354.01          |                             | 17:05 | 26.44              | 353.63          |                             | 17:04 | 26.59              | 353.60          |



| notes                                                                             | MW-13D<br>MPE = 365.27 famsl |       |                    |                 | MW-14S<br>MPE = 380.07 famsl |       |                    |                 | MW-14D<br>MPE = 380.19 famsl |       |                    |                 |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|
|                                                                                   | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                     | 06:00 |                    |                 | 08/11/92                     | 06:00 |                    |                 | 08/11/92                     | 06:00 |                    |                 |
|                                                                                   | 08/11/92                     | 06:49 | 11.26              | 354.01          |                              | 06:56 | 26.45              | 353.62          |                              | 06:57 | 26.58              | 353.61          |
|                                                                                   |                              | 12:35 | 11.22              | 354.05          |                              | 12:33 | 26.40              | 353.67          |                              | 12:33 | 26.51              | 353.68          |
|                                                                                   |                              | 14:50 |                    |                 |                              | 14:50 |                    |                 |                              | 14:50 |                    |                 |
|                                                                                   |                              | 17:28 | 11.22              | 354.05          |                              | 17:39 | 26.42              | 353.65          |                              | 17:40 | 26.53              | 353.66          |
|                                                                                   | 08/12/92                     | 05:50 |                    |                 | 08/12/92                     | 05:50 |                    |                 | 08/12/92                     | 05:50 |                    |                 |
|                                                                                   |                              | 06:47 | 11.20              | 354.07          |                              | 06:52 | 26.37              | 353.70          |                              | 06:53 | 26.50              | 353.69          |
|                                                                                   |                              | 13:32 | 11.17              | 354.10          |                              | 13:29 | 26.38              | 353.69          |                              | 13:30 | 26.48              | 353.71          |
|                                                                                   |                              | 17:00 |                    |                 |                              | 17:00 |                    |                 |                              | 17:00 |                    |                 |
|                                                                                   |                              | 18:30 | 11.13              | 354.14          |                              | 18:20 | 26.28              | 353.79          |                              | 18:21 | 26.43              | 353.76          |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     | 07:31 | 11.13              | 354.14          | 08/13/92                     | 07:30 |                    |                 | 08/13/92                     | 07:30 |                    |                 |
|                                                                                   |                              | 08:05 | 11.12              | 354.15          |                              | 07:45 | 26.29              | 353.78          |                              | 07:44 | 26.42              | 353.77          |
|                                                                                   |                              | 08:24 | 11.11              | 354.16          |                              | 08:16 | 26.28              | 353.79          |                              | 08:15 | 26.43              | 353.76          |
|                                                                                   |                              | 08:44 | 11.11              | 354.16          |                              | 08:35 | 26.28              | 353.79          |                              | 08:34 | 26.42              | 353.77          |
|                                                                                   |                              | 09:04 | 11.11              | 354.16          |                              | 08:55 | 26.28              | 353.79          |                              | 08:54 | 26.42              | 353.77          |
|                                                                                   |                              | 09:24 | 11.11              | 354.16          |                              | 09:14 | 26.28              | 353.79          |                              | 09:14 | 26.42              | 353.77          |
|                                                                                   |                              | 09:40 |                    |                 |                              | 09:34 | 26.28              | 353.79          |                              | 09:33 | 26.42              | 353.77          |
|                                                                                   |                              | 11:15 | 11.09              | 354.18          |                              | 11:22 | 26.26              | 353.81          |                              | 11:23 | 26.40              | 353.79          |
|                                                                                   |                              | 12:50 | 11.10              | 354.17          |                              | 13:01 | 26.27              | 353.80          |                              | 13:02 | 26.39              | 353.80          |
|                                                                                   |                              | 14:28 | 11.11              | 354.16          |                              | 14:32 | 26.28              | 353.79          |                              | 14:33 | 26.40              | 353.79          |
|                                                                                   |                              | 16:10 | 11.08              | 354.19          |                              | 16:14 | 26.26              | 353.81          |                              | 16:15 | 26.38              | 353.81          |
|                                                                                   |                              | 18:37 | 11.09              | 354.18          |                              | 18:32 | 26.26              | 353.81          |                              | 18:33 | 26.39              | 353.80          |
|                                                                                   | 08/14/92                     | 07:05 | 11.15              | 354.12          | 08/14/92                     | 07:12 | 26.21              | 353.86          | 08/14/92                     | 07:13 | 26.35              | 353.84          |
|                                                                                   |                              | 13:21 | 11.05              | 354.22          |                              | 13:18 | 26.18              | 353.89          |                              | 13:19 | 26.32              | 353.87          |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                |                              | 18:07 | 11.04              | 354.23          |                              | 17:59 | 26.20              | 353.87          |                              | 18:00 | 26.34              | 353.85          |
|                                                                                   | 08/15/92                     | 08:01 | 11.05              | 354.22          | 08/15/92                     | 07:58 | 26.17              | 353.90          | 08/15/92                     | 07:59 | 26.35              | 353.84          |
|                                                                                   |                              | 15:39 | 11.06              | 354.21          |                              | 15:36 | 26.19              | 353.88          |                              | 15:37 | 26.33              | 353.86          |
|                                                                                   | 08/16/92                     | 09:43 | 11.04              | 354.23          | 08/16/92                     | 09:35 | 26.14              | 353.93          | 08/16/92                     | 09:36 | 26.29              | 353.90          |
|                                                                                   |                              | 17:46 | 11.04              | 354.23          |                              | 17:39 | 26.15              | 353.92          |                              | 17:39 | 26.30              | 353.89          |
|                                                                                   | 08/17/92                     | 09:43 | 11.06              | 354.21          | 08/17/92                     | 09:49 | 26.14              | 353.93          | 08/17/92                     | 09:50 | 26.29              | 353.90          |
|                                                                                   |                              | 17:49 | 11.10              | 354.17          |                              | 17:58 | 26.16              | 353.91          |                              | 17:57 | 26.34              | 353.85          |
|                                                                                   | 08/18/92                     | 08:45 | 11.06              | 354.21          | 08/18/92                     | 08:38 | 26.14              | 353.93          | 08/18/92                     | 08:38 | 26.29              | 353.90          |
|                                                                                   |                              | 14:37 | 11.04              | 354.23          |                              | 14:29 | 26.13              | 353.94          |                              | 14:30 | 26.28              | 353.91          |
|                                                                                   |                              | 18:55 | 11.05              | 354.22          |                              | 18:49 | 26.13              | 353.94          |                              | 18:49 | 26.29              | 353.90          |
|                                                                                   | 08/19/92                     | 08:00 |                    |                 | 08/19/92                     | 08:00 |                    |                 | 08/19/92                     | 08:00 |                    |                 |
|                                                                                   |                              | 08:22 | 11.08              | 354.19          |                              | 08:27 | 26.14              | 353.93          |                              | 08:27 | 26.30              | 353.89          |
|                                                                                   |                              | 08:38 | 11.08              | 354.19          |                              | 08:43 | 26.15              | 353.92          |                              | 08:43 | 26.31              | 353.88          |
|                                                                                   |                              | 08:58 | 11.09              | 354.18          |                              | 09:04 | 26.15              | 353.92          |                              | 09:04 | 26.31              | 353.88          |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm |                              | 09:18 | 11.09              | 354.18          |                              | 09:23 | 26.15              | 353.92          |                              | 09:24 | 26.30              | 353.89          |
|                                                                                   |                              | 09:39 | 11.08              | 354.19          |                              | 09:44 | 26.14              | 353.93          |                              | 09:44 | 26.30              | 353.89          |
|                                                                                   |                              | 11:14 | 11.09              | 354.18          |                              | 11:18 | 26.13              | 353.94          |                              | 11:19 | 26.30              | 353.89          |
|                                                                                   |                              | 12:58 | 11.09              | 354.18          |                              | 13:01 | 26.12              | 353.95          |                              | 13:02 | 26.29              | 353.90          |
|                                                                                   |                              | 14:38 | 11.10              | 354.17          |                              | 14:43 | 26.12              | 353.95          |                              | 14:44 | 26.30              | 353.89          |
|                                                                                   |                              | 16:15 | 11.11              | 354.16          |                              | 16:20 | 26.12              | 353.95          |                              | 16:21 | 26.31              | 353.88          |
|                                                                                   |                              | 20:16 | 11.14              | 354.13          |                              | 20:07 | 26.18              | 353.89          |                              | 20:08 | 26.35              | 353.84          |
|                                                                                   | 08/20/92                     | 08:41 | 11.24              | 354.03          | 08/20/92                     | 08:34 | 26.24              | 353.83          | 08/20/92                     | 08:35 | 26.43              | 353.76          |
|                                                                                   |                              | 13:41 | 11.27              | 354.00          |                              | 13:37 | 26.27              | 353.80          |                              | 13:38 | 26.46              | 353.73          |
|                                                                                   |                              | 19:06 | 11.29              | 353.98          |                              | 18:59 | 26.29              | 353.78          |                              | 19:00 | 26.47              | 353.72          |
|                                                                                   | 08/21/92                     | 08:02 | 11.42              | 353.85          | 08/21/92                     | 08:10 | 26.40              | 353.67          | 08/21/92                     | 08:11 | 26.58              | 353.61          |
|                                                                                   |                              | 14:06 | 11.42              | 353.85          |                              | 13:57 | 26.41              | 353.66          |                              | 13:59 | 26.60              | 353.59          |
|                                                                                   | 08/22/92                     | 16:55 | 11.56              | 353.71          | 08/22/92                     | 16:48 | 26.58              | 353.49          | 08/22/92                     | 16:49 | 26.76              | 353.43          |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

| notes                                                                                  | MW-15D<br>MPE = 369.99 fmsl |       |                          |                         | MW-21S<br>MPE = 379.26 fmsl |       |                          |                         | MW-21D<br>MPE = 379.95 fmsl |       |                          |                         |
|----------------------------------------------------------------------------------------|-----------------------------|-------|--------------------------|-------------------------|-----------------------------|-------|--------------------------|-------------------------|-----------------------------|-------|--------------------------|-------------------------|
|                                                                                        | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                    | 08:00 |                          |                         | 08/03/92                    |       |                          |                         | 08/03/92                    |       |                          |                         |
|                                                                                        |                             | 07:58 | 16.76                    | 353.23                  |                             | 08:05 | 26.76                    | 352.50                  |                             | 08:06 | 27.46                    | 352.49                  |
|                                                                                        |                             | 08:20 | 16.78                    | 353.21                  |                             | 08:27 | 26.76                    | 352.50                  |                             | 08:28 | 27.46                    | 352.49                  |
|                                                                                        |                             | 08:39 | 16.76                    | 353.23                  |                             | 08:44 | 26.76                    | 352.50                  |                             | 08:45 | 27.46                    | 352.49                  |
|                                                                                        |                             | 08:57 | 16.76                    | 353.23                  |                             | 09:01 | 26.77                    | 352.49                  |                             | 09:02 | 27.46                    | 352.49                  |
|                                                                                        |                             | 09:17 | 16.76                    | 353.23                  |                             | 09:22 | 26.77                    | 352.49                  |                             | 09:23 | 27.46                    | 352.49                  |
|                                                                                        |                             | 09:38 | 16.76                    | 353.23                  |                             | 09:42 | 26.77                    | 352.49                  |                             | 09:43 | 27.46                    | 352.49                  |
|                                                                                        |                             | 10:00 |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 11:16 | 16.76                    | 353.23                  |                             | 11:25 | 26.77                    | 352.49                  |                             | 11:26 | 27.46                    | 352.49                  |
|                                                                                        |                             | 12:10 |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 12:53 | 16.76                    | 353.23                  |                             | 13:03 | 26.76                    | 352.50                  |                             | 13:04 | 27.45                    | 352.50                  |
|                                                                                        |                             | 14:38 | 16.76                    | 353.23                  |                             | 14:44 | 26.75                    | 352.51                  |                             | 14:45 | 27.45                    | 352.50                  |
|                                                                                        |                             | 16:17 | 16.76                    | 353.23                  |                             | 16:18 | 26.76                    | 352.50                  |                             | 16:19 | 27.45                    | 352.50                  |
|                                                                                        |                             | 18:11 | 16.74                    | 353.25                  |                             | 18:05 | 26.77                    | 352.49                  |                             | 18:05 | 27.44                    | 352.51                  |
|                                                                                        | 08/04/92                    | 07:40 | 16.57                    | 353.42                  | 08/04/92                    | 07:10 | 26.69                    | 352.57                  | 08/04/92                    | 07:11 | 27.38                    | 352.57                  |
|                                                                                        |                             | 12:29 | 16.54                    | 353.45                  |                             | 13:02 | 26.65                    | 352.61                  |                             | 13:02 | 27.34                    | 352.61                  |
|                                                                                        |                             | 19:16 | 16.41                    | 353.58                  |                             | 18:55 | 26.60                    | 352.66                  |                             | 18:55 | 27.27                    | 352.68                  |
|                                                                                        | 08/05/92                    | 06:28 | 16.33                    | 353.66                  | 08/05/92                    | 07:10 | 26.48                    | 352.78                  | 08/05/92                    | 07:11 | 27.15                    | 352.80                  |
|                                                                                        |                             | 12:37 | 16.39                    | 353.60                  |                             | 12:21 | 26.43                    | 352.83                  |                             | 12:22 | 27.11                    | 352.84                  |
|                                                                                        |                             | 19:05 | 16.24                    | 353.75                  |                             | 19:00 | 26.36                    | 352.90                  |                             | 19:00 | 27.05                    | 352.90                  |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                    | 06:56 | 16.22                    | 353.77                  | 08/06/92                    | 06:34 | 26.31                    | 352.95                  | 08/06/92                    | 06:35 | 26.99                    | 352.96                  |
|                                                                                        |                             | 08:17 | 16.22                    | 353.77                  |                             | 08:22 | 26.30                    | 352.96                  |                             | 08:23 | 27.01                    | 352.94                  |
|                                                                                        |                             | 08:31 | 16.23                    | 353.76                  |                             | 08:35 | 26.32                    | 352.94                  |                             | 08:36 | 27.02                    | 352.93                  |
|                                                                                        |                             | 08:51 | 16.22                    | 353.77                  |                             | 08:57 | 26.32                    | 352.94                  |                             | 08:58 | 27.02                    | 352.93                  |
|                                                                                        |                             | 09:13 | 16.22                    | 353.77                  |                             | 09:18 | 26.32                    | 352.94                  |                             | 09:19 | 27.02                    | 352.93                  |
|                                                                                        |                             | 09:32 | 16.22                    | 353.77                  |                             | 09:38 | 26.32                    | 352.94                  |                             | 09:39 | 27.02                    | 352.93                  |
|                                                                                        |                             | 09:54 | 16.22                    | 353.77                  |                             | 09:59 | 26.33                    | 352.93                  |                             | 10:00 | 27.02                    | 352.93                  |
|                                                                                        |                             | 10:40 |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 11:29 | 16.20                    | 353.79                  |                             | 11:34 | 26.30                    | 352.96                  |                             | 11:35 | 26.98                    | 352.97                  |
|                                                                                        |                             | 12:20 |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 13:02 | 16.20                    | 353.79                  |                             | 13:08 | 26.28                    | 352.98                  |                             | 13:09 | 26.98                    | 352.97                  |
|                                                                                        |                             | 14:00 |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 14:57 | 16.18                    | 353.81                  |                             | 14:49 | 26.30                    | 352.96                  |                             | 14:50 | 26.96                    | 352.99                  |
|                                                                                        |                             | 15:40 |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 16:36 | 16.18                    | 353.81                  |                             | 16:26 | 26.27                    | 352.99                  |                             | 16:29 | 26.96                    | 352.99                  |
|                                                                                        |                             | 17:00 |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 18:29 | 16.15                    | 353.84                  |                             | 18:19 | 26.24                    | 353.02                  |                             | 18:19 | 26.93                    | 353.02                  |
|                                                                                        |                             | 19:10 |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                    | 07:45 | 16.11                    | 353.88                  | 08/07/92                    | 07:08 | 26.19                    | 353.07                  | 08/07/92                    | 07:08 | 26.87                    | 353.08                  |
|                                                                                        |                             | 11:50 |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 12:03 | 16.10                    | 353.89                  |                             | 12:10 | 26.17                    | 353.09                  |                             | 12:11 | 26.86                    | 353.09                  |
|                                                                                        |                             | 12:34 | 16.09                    | 353.90                  |                             | 12:40 | 26.17                    | 353.09                  |                             | 12:41 | 26.85                    | 353.10                  |
|                                                                                        |                             | 12:52 | 16.09                    | 353.90                  |                             | 12:59 | 26.17                    | 353.09                  |                             | 13:01 | 26.86                    | 353.09                  |
|                                                                                        |                             | 13:13 | 16.08                    | 353.91                  |                             | 13:20 | 26.16                    | 353.10                  |                             | 13:21 | 26.85                    | 353.10                  |
|                                                                                        |                             | 13:32 | 16.08                    | 353.91                  |                             | 13:39 | 26.16                    | 353.10                  |                             | 13:40 | 26.85                    | 353.10                  |
|                                                                                        |                             | 16:29 | 16.06                    | 353.93                  |                             | 16:00 | 26.14                    | 353.12                  |                             | 16:00 | 26.84                    | 353.11                  |
|                                                                                        | 08/08/92                    | 11:09 | 15.99                    | 354.00                  | 08/08/92                    | 10:45 | 26.06                    | 353.20                  | 08/08/92                    | 10:46 | 26.74                    | 353.21                  |
|                                                                                        |                             | 17:41 | 15.95                    | 354.04                  |                             | 17:30 | 26.04                    | 353.22                  |                             | 17:31 | 26.70                    | 353.25                  |
|                                                                                        | 08/09/92                    | 12:43 | 15.85                    | 354.14                  | 08/09/92                    | 12:10 | 25.93                    | 353.33                  | 08/09/92                    | 12:11 | 26.61                    | 353.34                  |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                    | 08:50 | 15.77                    | 354.22                  | 08/10/92                    | 08:58 | 25.85                    | 353.41                  | 08/10/92                    | 08:57 | 26.53                    | 353.42                  |
|                                                                                        |                             | 09:07 | 15.77                    | 354.22                  |                             | 09:12 | 25.84                    | 353.42                  |                             | 09:13 | 26.51                    | 353.44                  |
|                                                                                        |                             | 09:31 | 15.77                    | 354.22                  |                             | 09:37 | 25.84                    | 353.42                  |                             | 09:38 | 26.52                    | 353.43                  |
|                                                                                        |                             | 09:49 | 15.76                    | 354.23                  |                             | 09:55 | 25.84                    | 353.42                  |                             | 09:55 | 26.52                    | 353.43                  |
|                                                                                        |                             | 10:08 | 15.76                    | 354.23                  |                             | 10:13 | 25.84                    | 353.42                  |                             | 10:14 | 26.51                    | 353.44                  |
|                                                                                        |                             | 10:29 | 15.76                    | 354.23                  |                             | 10:34 | 25.83                    | 353.43                  |                             | 10:35 | 26.51                    | 353.44                  |
|                                                                                        |                             | 12:16 | 15.74                    | 354.25                  |                             | 12:06 | 25.82                    | 353.44                  |                             | 12:07 | 26.50                    | 353.45                  |
|                                                                                        |                             | 13:00 |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 13:55 | 15.73                    | 354.26                  |                             | 13:46 | 25.81                    | 353.45                  |                             | 13:47 | 26.49                    | 353.46                  |
|                                                                                        |                             | 15:36 | 15.72                    | 354.27                  |                             | 15:29 | 25.81                    | 353.45                  |                             | 15:30 | 26.49                    | 353.46                  |
|                                                                                        |                             | 17:15 | 15.72                    | 354.27                  |                             | 17:07 | 25.80                    | 353.46                  |                             | 17:08 | 26.48                    | 353.47                  |



| notes                                                                             | MW-15D<br>MPE = 369.99 famsl |       |                    |                 | MW-21S<br>MPE = 379.26 famsl |       |                    |                 | MW-21D<br>MPE = 379.95 famsl |       |                    |                 |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|
|                                                                                   | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                     | 06:00 |                    |                 | 08/11/92                     | 06:20 | 25.77              | 353.49          | 08/11/92                     | 06:21 | 26.46              | 353.49          |
|                                                                                   |                              | 06:50 | 15.70              | 354.29          |                              | 12:23 | 25.73              | 353.53          |                              | 12:23 | 26.41              | 353.54          |
|                                                                                   |                              | 12:36 | 15.66              | 354.33          |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 14:50 |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   | 08/12/92                     | 17:30 | 15.67              | 354.32          | 08/12/92                     | 17:44 | 25.75              | 353.51          | 08/12/92                     | 17:43 | 26.43              | 353.52          |
|                                                                                   |                              | 05:50 |                    |                 |                              | 06:20 | 25.68              | 353.58          |                              | 06:21 | 26.38              | 353.57          |
|                                                                                   |                              | 06:48 | 15.64              | 354.35          |                              | 13:19 | 25.68              | 353.58          |                              | 13:19 | 26.36              | 353.59          |
|                                                                                   |                              | 13:33 | 15.62              | 354.37          |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 17:00 |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 18:29 | 15.58              | 354.41          |                              | 18:01 | 25.63              | 353.63          |                              | 18:01 | 26.32              | 353.63          |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     | 07:32 | 15.59              | 354.40          | 08/13/92                     | 07:40 | 25.62              | 353.64          | 08/13/92                     | 07:41 | 26.31              | 353.64          |
|                                                                                   |                              | 08:07 | 15.58              | 354.41          |                              | 08:13 | 25.63              | 353.63          |                              | 08:14 | 26.31              | 353.64          |
|                                                                                   |                              | 08:26 | 15.58              | 354.41          |                              | 08:32 | 25.62              | 353.64          |                              | 08:33 | 26.31              | 353.64          |
|                                                                                   |                              | 08:45 | 15.57              | 354.42          |                              | 08:51 | 25.62              | 353.64          |                              | 08:52 | 26.31              | 353.64          |
|                                                                                   |                              | 09:05 | 15.57              | 354.42          |                              | 09:10 | 25.62              | 353.64          |                              | 09:12 | 26.30              | 353.65          |
|                                                                                   |                              | 09:25 | 15.57              | 354.42          |                              | 09:31 | 25.62              | 353.64          |                              | 09:31 | 26.30              | 353.65          |
|                                                                                   |                              | 09:40 |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 11:16 | 15.56              | 354.43          |                              | 11:03 | 25.60              | 353.66          |                              | 11:04 | 26.27              | 353.68          |
|                                                                                   |                              | 12:52 | 15.55              | 354.44          |                              | 12:52 | 25.60              | 353.66          |                              | 12:53 | 26.27              | 353.68          |
|                                                                                   |                              | 14:29 | 15.56              | 354.43          |                              | 14:28 | 25.60              | 353.66          |                              | 14:29 | 26.28              | 353.67          |
|                                                                                   |                              | 16:10 | 15.55              | 354.44          |                              | 16:17 | 25.59              | 353.67          |                              | 16:18 | 26.27              | 353.68          |
|                                                                                   |                              | 18:35 | 15.55              | 354.44          |                              | 18:23 | 25.59              | 353.67          |                              | 18:24 | 26.28              | 353.67          |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     | 07:06 | 15.53              | 354.46          | 08/14/92                     | 06:33 | 25.54              | 353.72          | 08/14/92                     | 06:34 | 26.21              | 353.74          |
|                                                                                   |                              | 13:22 | 15.51              | 354.48          |                              | 13:04 | 25.53              | 353.73          |                              | 13:05 | 26.22              | 353.73          |
|                                                                                   |                              | 18:06 | 15.52              | 354.47          |                              | 17:48 | 25.54              | 353.72          |                              | 17:49 | 26.23              | 353.72          |
|                                                                                   | 08/15/92                     | 08:03 | 15.50              | 354.49          | 08/15/92                     | 07:47 | 25.51              | 353.75          | 08/15/92                     | 07:48 | 26.20              | 353.75          |
|                                                                                   |                              | 15:40 | 15.50              | 354.49          |                              | 15:22 | 25.52              | 353.74          |                              | 15:21 | 26.21              | 353.74          |
|                                                                                   | 08/16/92                     | 09:42 | 15.50              | 354.49          | 08/16/92                     | 09:13 | 25.46              | 353.80          | 08/16/92                     | 09:13 | 26.16              | 353.79          |
|                                                                                   |                              | 17:44 | 15.50              | 354.49          |                              | 17:24 | 25.48              | 353.78          |                              | 17:24 | 26.17              | 353.78          |
|                                                                                   | 08/17/92                     | 09:44 | 15.52              | 354.47          | 08/17/92                     | 09:10 | 25.46              | 353.80          | 08/17/92                     | 09:11 | 26.13              | 353.82          |
|                                                                                   |                              | 17:51 | 15.54              | 354.45          |                              | 18:09 | 25.49              | 353.77          |                              | 18:10 | 26.17              | 353.78          |
|                                                                                   | 08/18/92                     | 08:44 | 15.54              | 354.45          | 08/18/92                     | 08:27 | 25.47              | 353.79          | 08/18/92                     | 08:28 | 26.15              | 353.80          |
|                                                                                   |                              | 14:36 | 15.53              | 354.46          |                              | 14:09 | 25.45              | 353.81          |                              | 14:09 | 26.14              | 353.81          |
|                                                                                   |                              | 18:54 | 15.53              | 354.46          |                              | 18:36 | 25.46              | 353.80          |                              | 18:36 | 26.14              | 353.81          |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     | 08:00 |                    |                 | 08/19/92                     | 08:13 | 25.46              | 353.80          | 08/19/92                     | 08:13 | 26.14              | 353.81          |
|                                                                                   |                              | 08:23 | 15.57              | 354.42          |                              | 08:29 | 25.46              | 353.80          |                              | 08:29 | 26.14              | 353.81          |
|                                                                                   |                              | 08:39 | 15.57              | 354.42          |                              | 08:48 | 25.45              | 353.81          |                              | 08:47 | 26.14              | 353.81          |
|                                                                                   |                              | 08:59 | 15.58              | 354.41          |                              | 09:04 | 25.45              | 353.81          |                              | 09:04 | 26.13              | 353.82          |
|                                                                                   |                              | 09:19 | 15.57              | 354.42          |                              | 09:26 | 25.46              | 353.80          |                              | 09:25 | 26.14              | 353.81          |
|                                                                                   |                              | 09:40 | 15.56              | 354.43          |                              | 09:46 | 25.46              | 353.80          |                              | 09:46 | 26.14              | 353.81          |
|                                                                                   |                              | 11:18 | 15.57              | 354.42          |                              | 11:19 | 25.45              | 353.81          |                              | 11:19 | 26.14              | 353.81          |
|                                                                                   |                              | 13:01 | 15.59              | 354.40          |                              | 13:04 | 25.45              | 353.81          |                              | 13:04 | 26.14              | 353.81          |
|                                                                                   |                              | 14:42 | 15.59              | 354.40          |                              | 14:43 | 25.45              | 353.81          |                              | 14:43 | 26.14              | 353.81          |
|                                                                                   |                              | 16:19 | 15.60              | 354.39          |                              | 16:21 | 25.46              | 353.80          |                              | 16:21 | 26.15              | 353.80          |
|                                                                                   |                              | 20:15 | 15.63              | 354.36          |                              | 19:44 | 25.48              | 353.78          |                              | 19:45 | 26.17              | 353.78          |
|                                                                                   | 08/20/92                     | 08:39 | 15.72              | 354.27          | 08/20/92                     | 08:13 | 25.64              | 353.62          | 08/20/92                     | 08:13 | 26.23              | 353.72          |
|                                                                                   |                              | 13:43 | 15.75              | 354.24          |                              | 13:35 | 25.57              | 353.69          |                              | 13:36 | 26.26              | 353.69          |
|                                                                                   |                              | 19:05 | 15.78              | 354.21          |                              | 18:39 | 25.59              | 353.67          |                              | 18:39 | 26.28              | 353.67          |
|                                                                                   | 08/21/92                     | 08:04 | 15.89              | 354.10          | 08/21/92                     | 08:32 | 25.68              | 353.58          | 08/21/92                     | 08:33 | 26.37              | 353.58          |
|                                                                                   |                              | 14:05 | 15.90              | 354.09          |                              | 13:49 | 25.70              | 353.56          |                              | 13:51 | 26.38              | 353.57          |
|                                                                                   | 08/22/92                     | 16:54 | 16.05              | 353.94          | 08/22/92                     | 17:51 | 25.84              | 353.42          | 08/22/92                     | 17:49 | 26.50              | 353.45          |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

| notes                           | MW-23S<br>MPE = 366.49 fmsl |       |                          |                         | MW-23D<br>MPE = 366.88 fmsl |       |                          |                         | MW-24S<br>MPE = 363.54 fmsl |       |                          |                         |
|---------------------------------|-----------------------------|-------|--------------------------|-------------------------|-----------------------------|-------|--------------------------|-------------------------|-----------------------------|-------|--------------------------|-------------------------|
|                                 | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
| 08/03 08:00<br>PHASE I START    | 08/03/92                    | 08:00 |                          |                         | 08/03/92                    | 08:00 |                          |                         | 08/03/92                    | 08:00 |                          |                         |
| K-2/M-2 off                     |                             | 08:05 | 19.72                    | 346.77                  |                             | 08:06 | 20.28                    | 346.60                  |                             | 07:56 | 11.40                    | 352.14                  |
|                                 |                             | 08:26 | 19.72                    | 346.77                  |                             | 08:27 | 20.27                    | 346.61                  |                             | 08:17 | 11.39                    | 352.15                  |
|                                 |                             | 08:44 | 19.72                    | 346.77                  |                             | 08:45 | 20.26                    | 346.62                  |                             | 08:37 | 11.38                    | 352.16                  |
|                                 |                             | 09:02 | 19.72                    | 346.77                  |                             | 09:03 | 20.25                    | 346.63                  |                             | 08:55 | 11.38                    | 352.16                  |
|                                 |                             | 09:23 | 19.70                    | 346.79                  |                             | 09:24 | 20.24                    | 346.64                  |                             | 09:16 | 11.38                    | 352.16                  |
|                                 |                             | 09:43 | 19.69                    | 346.80                  |                             | 09:44 | 20.24                    | 346.64                  |                             | 09:36 | 11.39                    | 352.15                  |
|                                 |                             | 10:00 |                          |                         |                             | 10:00 |                          |                         |                             | 10:00 |                          |                         |
|                                 |                             | 11:33 | 19.64                    | 346.85                  |                             | 11:34 | 20.18                    | 346.70                  |                             | 11:26 | 11.34                    | 352.20                  |
|                                 |                             | 12:10 |                          |                         |                             | 12:10 |                          |                         |                             | 12:10 |                          |                         |
|                                 |                             | 13:11 | 19.59                    | 346.90                  |                             | 13:12 | 20.12                    | 346.76                  |                             | 13:03 | 11.33                    | 352.21                  |
|                                 |                             | 14:52 | 19.55                    | 346.94                  |                             | 14:52 | 20.11                    | 346.77                  |                             | 14:46 | 11.32                    | 352.22                  |
|                                 |                             | 16:33 | 19.52                    | 346.97                  |                             | 16:34 | 20.04                    | 346.84                  |                             | 16:27 | 11.30                    | 352.24                  |
|                                 |                             | 18:22 | 19.47                    | 347.02                  |                             | 18:22 | 20.01                    | 346.87                  |                             | 18:15 | 11.28                    | 352.26                  |
|                                 | 08/04/92                    | 08:00 | 19.10                    | 347.39                  | 08/04/92                    | 08:01 | 19.67                    | 347.21                  | 08/04/92                    | 07:49 | 11.08                    | 352.46                  |
|                                 |                             | 12:50 | 19.00                    | 347.49                  |                             | 12:49 | 19.61                    | 347.27                  |                             | 12:38 | 11.02                    | 352.52                  |
|                                 |                             | 19:30 | 18.86                    | 347.63                  |                             | 19:30 | 19.46                    | 347.42                  |                             | 19:19 | 10.91                    | 352.63                  |
|                                 | 08/05/92                    | 06:51 | 18.72                    | 347.77                  | 08/05/92                    | 06:52 | 19.32                    | 347.56                  | 08/05/92                    | 06:42 | 10.80                    | 352.74                  |
|                                 |                             | 12:50 | 18.68                    | 347.81                  |                             | 12:51 | 19.27                    | 347.61                  |                             | 13:00 | 10.75                    | 352.79                  |
|                                 |                             | 19:25 | 18.68                    | 347.81                  |                             | 19:26 | 19.26                    | 347.62                  |                             | 19:16 | 10.71                    | 352.83                  |
| 08/06 08:10<br>PHASE II START   | 08/06/92                    | 07:07 | 18.62                    | 347.87                  | 08/06/92                    | 07:07 | 19.16                    | 347.72                  | 08/06/92                    | 06:58 | 10.66                    | 352.88                  |
| K-1 off<br>K-2/M-2 off          |                             | 08:22 | 18.60                    | 347.89                  |                             | 08:23 | 19.18                    | 347.70                  |                             | 08:20 |                          |                         |
|                                 |                             | 08:35 | 18.59                    | 347.90                  |                             | 08:36 | 19.16                    | 347.72                  |                             | 08:35 |                          |                         |
|                                 |                             | 08:58 | 18.58                    | 347.91                  |                             | 08:59 | 19.15                    | 347.73                  |                             | 08:50 |                          |                         |
|                                 |                             | 09:24 | 18.58                    | 347.91                  |                             | 09:25 | 19.13                    | 347.75                  |                             | 09:10 |                          |                         |
|                                 |                             | 09:39 | 18.55                    | 347.94                  |                             | 09:42 | 19.12                    | 347.76                  |                             | 09:30 |                          |                         |
|                                 |                             | 09:58 | 18.53                    | 347.96                  |                             | 09:59 | 19.09                    | 347.79                  |                             | 09:50 |                          |                         |
|                                 |                             | 10:40 |                          |                         |                             | 10:40 |                          |                         |                             | 10:40 |                          |                         |
|                                 |                             | 11:47 | 18.46                    | 348.03                  |                             | 11:48 | 19.00                    | 347.88                  |                             | 11:48 | 10.64                    | 352.90                  |
|                                 |                             | 12:20 |                          |                         |                             | 12:20 |                          |                         |                             | 12:20 |                          |                         |
|                                 |                             | 13:21 | 18.37                    | 348.12                  |                             | 13:23 | 18.91                    | 347.97                  |                             | 13:20 |                          |                         |
|                                 |                             | 14:00 |                          |                         |                             | 14:00 |                          |                         |                             | 14:00 |                          |                         |
|                                 |                             | 15:07 | 18.27                    | 348.22                  |                             | 15:09 | 18.79                    | 348.09                  |                             | 15:00 |                          |                         |
|                                 |                             | 15:40 |                          |                         |                             | 15:40 |                          |                         |                             | 15:40 |                          |                         |
|                                 |                             | 16:46 | 18.19                    | 348.30                  |                             | 16:48 | 18.72                    | 348.16                  |                             | 16:30 | 10.60                    | 352.94                  |
|                                 |                             | 17:00 |                          |                         |                             | 17:00 |                          |                         |                             | 17:00 |                          |                         |
|                                 |                             | 18:46 | 18.06                    | 348.43                  |                             | 18:47 | 18.58                    | 348.30                  |                             | 18:35 | 10.58                    | 352.96                  |
|                                 |                             | 19:10 |                          |                         |                             | 19:10 |                          |                         |                             | 19:10 |                          |                         |
| 08/07 12:15<br>PHASE IIIA START | 08/07/92                    | 07:58 | 17.48                    | 349.01                  | 08/07/92                    | 07:58 | 17.98                    | 348.90                  | 08/07/92                    | 07:48 | 10.53                    | 353.01                  |
| K-1 on/off<br>intermittently    |                             | 11:50 |                          |                         |                             | 11:50 |                          |                         |                             | 11:50 |                          |                         |
|                                 |                             | 12:07 | 17.32                    | 349.17                  |                             | 12:07 | 17.82                    | 349.06                  |                             | 12:00 |                          |                         |
|                                 |                             | 12:39 | 17.30                    | 349.19                  |                             | 12:40 | 17.81                    | 349.07                  |                             | 12:36 | 10.47                    | 353.07                  |
|                                 |                             | 13:02 | 17.30                    | 349.19                  |                             | 13:03 | 17.80                    | 349.08                  |                             | 12:50 |                          |                         |
|                                 |                             | 13:19 | 17.30                    | 349.19                  |                             | 13:19 | 17.82                    | 349.06                  |                             | 13:10 |                          |                         |
|                                 |                             | 13:36 | 17.30                    | 349.19                  |                             | 13:37 | 17.81                    | 349.07                  |                             | 13:30 |                          |                         |
|                                 |                             | 16:42 | 17.22                    | 349.27                  |                             | 16:42 | 17.73                    | 349.15                  |                             | 16:30 | 10.44                    | 353.10                  |
| K-2/M-2 off                     | 08/08/92                    | 11:22 | 16.67                    | 349.82                  | 08/08/92                    | 11:22 | 17.15                    | 349.73                  | 08/08/92                    | 11:12 | 10.32                    | 353.22                  |
|                                 |                             | 18:00 | 16.59                    | 349.90                  |                             | 17:59 | 16.98                    | 349.90                  |                             | 17:40 | 10.27                    | 353.27                  |
|                                 | 08/09/92                    | 13:04 | 16.03                    | 350.46                  | 08/09/92                    | 13:05 | 16.49                    | 350.39                  | 08/09/92                    | 12:50 | 10.15                    | 353.39                  |
| 08/10 08:45<br>PHASE IIIB START | 08/10/92                    | 08:55 | 15.69                    | 350.80                  | 08/10/92                    | 08:56 | 16.13                    | 350.75                  | 08/10/92                    | 08:55 | 10.07                    | 353.47                  |
| K-1 on 312gpm<br>K-2/M-2 off    |                             | 09:11 | 15.69                    | 350.80                  |                             | 09:12 | 16.14                    | 350.74                  |                             | 09:10 |                          |                         |
|                                 |                             | 09:35 | 15.73                    | 350.76                  |                             | 09:36 | 16.20                    | 350.68                  |                             | 09:30 |                          |                         |
|                                 |                             | 09:53 | 15.75                    | 350.74                  |                             | 09:54 | 16.20                    | 350.68                  |                             | 09:50 |                          |                         |
|                                 |                             | 10:12 | 15.75                    | 350.74                  |                             | 10:13 | 16.22                    | 350.66                  |                             | 10:10 |                          |                         |
|                                 |                             | 10:33 | 15.75                    | 350.74                  |                             | 10:34 | 16.26                    | 350.62                  |                             | 10:30 |                          |                         |
|                                 |                             | 12:27 | 15.80                    | 350.69                  |                             | 12:27 | 16.29                    | 350.59                  |                             | 12:10 |                          |                         |
|                                 |                             | 13:00 |                          |                         |                             | 13:00 |                          |                         |                             | 13:07 | 10.23                    | 353.31                  |
|                                 |                             | 14:07 | 15.85                    | 350.64                  |                             | 14:08 | 16.33                    | 350.55                  |                             | 13:50 |                          |                         |
|                                 |                             | 15:50 | 15.89                    | 350.60                  |                             | 15:51 | 16.38                    | 350.50                  |                             | 15:30 |                          |                         |
|                                 |                             | 17:25 | 15.92                    | 350.57                  |                             | 17:26 | 16.41                    | 350.47                  |                             | 17:19 | 9.98                     | 353.56                  |

| notes                                                                             | MW-23S<br>MPE = 366.49 famsl |       |                    |                 | MW-23D<br>MPE = 366.88 famsl |       |                    |                 | MW-24S<br>MPE = 363.54 famsl |       |                    |                 |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|
|                                                                                   | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                     | 06:00 |                    |                 | 08/11/92                     | 06:00 |                    |                 | 08/11/92                     | 06:00 |                    |                 |
|                                                                                   |                              | 06:37 | 15.88              | 350.61          |                              | 06:38 | 16.36              | 350.52          |                              | 06:47 | 9.97               | 353.57          |
|                                                                                   |                              | 12:57 | 15.88              | 350.61          |                              | 12:57 | 16.31              | 350.57          |                              | 12:47 | 9.92               | 353.62          |
|                                                                                   |                              | 14:50 |                    |                 |                              | 14:50 |                    |                 |                              | 14:50 |                    |                 |
|                                                                                   |                              | 17:21 | 15.90              | 350.59          |                              | 17:21 | 15.90              | 350.98          |                              | 17:13 | 9.95               | 353.59          |
|                                                                                   | 08/12/92                     | 05:50 |                    |                 | 08/12/92                     | 05:50 |                    |                 | 08/12/92                     | 05:50 |                    |                 |
|                                                                                   |                              | 06:35 | 16.01              | 350.48          |                              | 06:35 | 16.52              | 350.36          |                              | 06:44 | 9.92               | 353.62          |
|                                                                                   |                              | 13:56 | 16.02              | 350.47          |                              | 13:55 | 16.50              | 350.38          |                              | 13:47 | 9.91               | 353.63          |
|                                                                                   |                              | 17:00 |                    |                 |                              | 17:00 |                    |                 |                              | 17:00 |                    |                 |
|                                                                                   |                              | 18:46 | 15.98              | 350.51          |                              | 18:48 | 16.47              | 350.41          |                              | 18:32 | 9.85               | 353.69          |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     | 07:39 | 16.01              | 350.48          | 08/13/92                     | 07:40 | 16.50              | 350.38          | 08/13/92                     | 07:29 | 9.84               | 353.70          |
|                                                                                   |                              | 08:11 | 16.01              | 350.48          |                              | 08:12 | 16.50              | 350.38          |                              | 08:02 | 9.84               | 353.70          |
|                                                                                   |                              | 08:30 | 16.02              | 350.47          |                              | 08:31 | 16.52              | 350.36          |                              | 08:22 | 9.83               | 353.71          |
|                                                                                   |                              | 08:40 | 16.03              | 350.46          |                              | 08:41 | 16.53              | 350.35          |                              | 08:42 | 9.83               | 353.71          |
|                                                                                   |                              | 09:09 | 16.03              | 350.46          |                              | 09:10 | 16.55              | 350.33          |                              | 09:02 | 9.82               | 353.72          |
|                                                                                   |                              | 09:30 | 16.05              | 350.44          |                              | 09:31 | 16.55              | 350.33          |                              | 09:23 | 9.82               | 353.72          |
|                                                                                   |                              | 09:40 |                    |                 |                              | 09:40 |                    |                 |                              | 09:40 |                    |                 |
|                                                                                   |                              | 11:04 | 16.10              | 350.39          |                              | 11:05 | 16.62              | 350.26          |                              | 11:51 | 9.80               | 353.74          |
|                                                                                   |                              | 12:47 | 16.15              | 350.34          |                              | 12:48 | 16.68              | 350.20          |                              | 13:00 |                    |                 |
|                                                                                   |                              | 14:21 | 16.19              | 350.30          |                              | 14:22 | 16.71              | 350.17          |                              | 14:40 |                    |                 |
|                                                                                   |                              | 16:00 | 16.22              | 350.27          |                              | 16:01 | 16.75              | 350.13          |                              | 16:07 | 9.80               | 353.74          |
|                                                                                   |                              | 18:51 | 16.29              | 350.20          |                              | 18:52 | 16.80              | 350.08          |                              | 18:44 | 9.80               | 353.74          |
|                                                                                   |                              |       |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     | 06:48 | 16.45              | 350.04          | 08/14/92                     | 06:49 | 17.01              | 349.87          | 08/14/92                     | 07:01 | 9.78               | 353.76          |
|                                                                                   |                              | 13:45 | 16.57              | 349.92          |                              | 13:44 | 17.10              | 349.78          |                              | 13:34 | 9.78               | 353.76          |
|                                                                                   |                              | 18:26 | 16.65              | 349.84          |                              | 18:27 | 17.19              | 349.69          |                              | 18:14 | 9.80               | 353.74          |
|                                                                                   | 08/15/92                     | 08:26 | 16.82              | 349.67          | 08/15/92                     | 08:25 | 17.36              | 349.52          | 08/15/92                     | 08:16 | 9.80               | 353.74          |
|                                                                                   |                              | 16:01 | 16.90              | 349.59          |                              | 16:00 | 17.46              | 349.42          |                              | 15:50 | 9.82               | 353.72          |
|                                                                                   | 08/16/92                     | 09:57 | 17.00              | 349.49          | 08/16/92                     | 09:56 | 17.56              | 349.32          | 08/16/92                     | 09:47 | 9.82               | 353.72          |
|                                                                                   |                              | 17:57 | 17.07              | 349.42          |                              | 17:57 | 17.61              | 349.27          |                              | 17:47 | 9.82               | 353.72          |
|                                                                                   | 08/17/92                     | 09:25 | 17.16              | 349.33          | 08/17/92                     | 09:26 | 17.72              | 349.16          | 08/17/92                     | 09:41 | 9.85               | 353.69          |
|                                                                                   |                              | 17:37 | 17.14              | 349.35          |                              | 17:37 | 17.70              | 349.18          |                              | 17:46 | 9.86               | 353.68          |
|                                                                                   | 08/18/92                     | 08:57 | 17.21              | 349.28          | 08/18/92                     | 08:57 | 17.77              | 349.11          | 08/18/92                     | 08:47 | 9.85               | 353.69          |
|                                                                                   |                              | 14:49 | 17.23              | 349.26          |                              | 14:49 | 17.79              | 349.09          |                              | 14:39 | 9.84               | 353.70          |
|                                                                                   |                              | 19:06 | 17.25              | 349.24          |                              | 19:07 | 17.80              | 349.08          |                              | 18:57 | 9.85               | 353.69          |
|                                                                                   |                              |       |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     | 08:00 |                    | 366.49          | 08/19/92                     | 08:00 |                    |                 | 08/19/92                     | 08:00 |                    |                 |
|                                                                                   |                              | 08:30 | 17.34              | 349.15          |                              | 08:31 | 17.90              | 348.98          |                              | 08:21 | 9.89               | 353.65          |
|                                                                                   |                              | 08:47 | 17.34              | 349.15          |                              | 08:48 | 17.88              | 349.00          |                              | 08:38 | 9.89               | 353.65          |
|                                                                                   |                              | 09:06 | 17.34              | 349.15          |                              | 09:07 | 17.90              | 348.98          |                              | 08:57 | 9.89               | 353.65          |
|                                                                                   |                              | 09:26 | 17.35              | 349.14          |                              | 09:27 | 17.94              | 348.94          |                              | 09:16 | 9.89               | 353.65          |
|                                                                                   |                              | 09:47 | 17.37              | 349.12          |                              | 09:48 | 17.92              | 348.96          |                              | 09:39 | 9.89               | 353.65          |
|                                                                                   |                              | 11:27 | 17.45              | 349.04          |                              | 11:27 | 18.01              | 348.87          |                              | 11:22 | 9.89               | 353.65          |
|                                                                                   |                              | 13:10 | 17.51              | 348.98          |                              | 13:10 | 18.06              | 348.82          |                              | 13:05 | 9.94               | 353.60          |
|                                                                                   |                              | 14:51 | 17.57              | 348.92          |                              | 14:52 | 18.12              | 348.76          |                              | 14:46 | 9.96               | 353.58          |
|                                                                                   |                              | 16:28 | 17.62              | 348.87          |                              | 16:28 | 18.17              | 348.71          |                              | 16:23 | 9.96               | 353.58          |
|                                                                                   |                              | 20:31 | 17.73              | 348.76          |                              | 20:32 | 18.26              | 348.62          |                              | 20:18 | 10.02              | 353.52          |
|                                                                                   | 08/20/92                     | 08:52 | 17.96              | 348.53          | 08/20/92                     | 08:52 | 18.49              | 348.39          | 08/20/92                     | 08:43 | 10.16              | 353.38          |
|                                                                                   |                              | 14:08 | 18.07              | 348.42          |                              | 14:07 | 18.60              | 348.28          |                              | 13:57 | 10.21              | 353.33          |
|                                                                                   |                              | 19:22 | 18.10              | 348.39          |                              | 19:23 | 18.62              | 348.26          |                              | 19:08 | 10.23              | 353.31          |
|                                                                                   | 08/21/92                     | 07:48 | 18.26              | 348.23          | 08/21/92                     | 07:47 | 18.78              | 348.10          | 08/21/92                     | 07:59 | 10.38              | 353.16          |
|                                                                                   |                              | 14:29 | 18.31              | 348.18          |                              | 14:29 | 18.83              | 348.05          |                              | 14:17 | 10.37              | 353.17          |
|                                                                                   | 08/22/92                     | 17:09 | 18.58              | 347.91          | 08/22/92                     | 17:10 | 19.05              | 347.83          | 08/22/92                     | 16:57 | 10.53              | 353.01          |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

| notes                                                                                  | MW-24D<br>MPE = 363.67 fmsl |       |                    |                 | MW-25S<br>MPE = 365.98 fmsl |       |                    |                 | MW-25D<br>MPE = 368.14 fmsl |       |                    |                 |
|----------------------------------------------------------------------------------------|-----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|
|                                                                                        | date                        | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                    | 08:00 |                    |                 | 08/03/92                    |       |                    |                 | 08/03/92                    |       |                    |                 |
|                                                                                        |                             | 07:55 | 11.65              | 352.02          |                             | 08:07 | 14.00              | 351.98          |                             | 08:08 | 16.16              | 351.98          |
|                                                                                        |                             | 08:18 | 11.65              | 352.02          |                             | 08:29 | 14.00              | 351.98          |                             | 08:30 | 16.14              | 352.00          |
|                                                                                        |                             | 08:36 | 11.66              | 352.01          |                             | 08:47 | 14.00              | 351.98          |                             | 08:48 | 16.14              | 352.00          |
|                                                                                        |                             | 08:54 | 11.65              | 352.02          |                             | 09:05 | 14.00              | 351.98          |                             | 09:05 | 16.16              | 351.98          |
|                                                                                        |                             | 09:15 | 11.64              | 352.03          |                             | 09:25 | 14.00              | 351.98          |                             | 09:26 | 16.16              | 351.98          |
|                                                                                        |                             | 09:35 | 11.64              | 352.03          |                             | 09:45 | 14.00              | 351.98          |                             | 09:46 | 16.16              | 351.98          |
|                                                                                        |                             | 10:00 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 11:27 | 11.62              | 352.05          |                             | 11:23 | 14.00              | 351.98          |                             | 11:24 | 16.14              | 352.00          |
|                                                                                        |                             | 12:10 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        | 08/04/92                    | 13:05 | 11.60              | 352.07          |                             | 13:01 | 14.00              | 351.98          |                             | 13:02 | 16.11              | 352.03          |
|                                                                                        |                             | 14:47 | 11.58              | 352.09          |                             | 14:44 | 13.98              | 352.00          |                             | 14:45 | 16.12              | 352.02          |
|                                                                                        |                             | 16:28 | 11.56              | 352.11          |                             | 16:25 | 13.96              | 352.02          |                             | 16:26 | 16.08              | 352.06          |
|                                                                                        |                             | 18:15 | 11.55              | 352.12          |                             | 17:59 | 13.95              | 352.03          |                             | 17:59 | 16.07              | 352.07          |
|                                                                                        |                             | 07:50 | 11.32              | 352.35          |                             | 07:45 | 13.78              | 352.20          |                             | 07:46 | 15.87              | 352.27          |
|                                                                                        | 08/05/92                    | 12:38 | 11.25              | 352.42          |                             | 12:35 | 13.70              | 352.28          |                             | 12:36 | 15.83              | 352.31          |
|                                                                                        |                             | 19:19 | 11.17              | 352.50          |                             | 19:06 | 13.52              | 352.46          |                             | 19:07 | 15.72              | 352.42          |
|                                                                                        |                             | 06:43 | 11.07              | 352.60          |                             | 06:38 | 13.50              | 352.48          |                             | 06:39 | 15.69              | 352.45          |
|                                                                                        |                             | 13:01 | 10.99              | 352.68          |                             | 12:42 | 13.44              | 352.54          |                             | 12:44 | 15.55              | 352.59          |
|                                                                                        |                             | 19:17 | 10.97              | 352.70          |                             | 19:36 | 13.38              | 352.60          |                             | 19:37 | 15.51              | 352.63          |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                    | 06:59 | 10.91              | 352.76          | 08/06/92                    | 06:47 | 13.32              | 352.66          | 08/06/92                    | 06:48 | 15.45              | 352.69          |
|                                                                                        |                             | 08:20 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 08:35 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 08:50 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 09:10 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 09:30 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 09:50 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 10:40 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 11:48 | 10.89              | 352.78          |                             | 11:47 | 13.30              | 352.68          |                             | 11:47 | 15.42              | 352.72          |
|                                                                                        |                             | 12:20 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 13:23 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 14:00 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 15:09 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 15:40 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                    | 07:48 | 10.53              | 353.14          | 08/07/92                    | 07:37 | 13.19              | 352.79          | 08/07/92                    | 07:37 | 15.31              | 352.83          |
|                                                                                        |                             | 11:50 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 12:00 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 12:36 | 10.47              | 353.20          |                             | 12:34 | 13.14              | 352.84          |                             | 12:35 | 15.24              | 352.90          |
|                                                                                        |                             | 12:50 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        | 08/08/92                    | 13:10 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 13:30 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 16:30 | 10.44              | 353.23          |                             | 16:21 | 13.13              | 352.85          |                             | 16:22 | 15.23              | 352.91          |
|                                                                                        |                             | 11:12 | 10.32              | 353.35          |                             | 11:01 | 13.01              | 352.97          |                             | 11:01 | 15.11              | 353.03          |
|                                                                                        |                             | 17:40 | 10.27              | 353.40          |                             | 17:48 | 12.98              | 353.00          |                             | 17:49 | 15.04              | 353.10          |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/09/92                    | 12:50 | 10.15              | 353.52          | 08/09/92                    | 12:29 | 12.83              | 353.15          | 08/09/92                    | 12:30 | 14.94              | 353.20          |
|                                                                                        |                             |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             |       |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        | 08/10/92                    | 08:55 | 10.07              | 353.60          |                             | 09:05 | 12.74              | 353.24          |                             | 09:06 | 14.83              | 353.31          |
|                                                                                        |                             | 09:10 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 09:30 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 09:50 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 10:10 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 10:30 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 12:10 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 13:07 | 10.23              | 353.44          |                             | 13:04 | 12.67              | 353.31          |                             | 13:05 | 14.79              | 353.35          |
|                                                                                        |                             | 13:50 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 15:30 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 17:19 | 9.98               | 353.69          |                             | 17:01 | 12.66              | 353.32          |                             | 17:02 | 14.77              | 353.37          |



| notes                                                                             | MW-24D<br>MPE = 363.67 famsl |       |                    |                 | MW-25S<br>MPE = 365.98 famsl |       |                    |                 | MW-25D<br>MPE = 368.14 famsl |       |                    |                 |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|
|                                                                                   | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                     | 06:00 |                    |                 | 08/11/92                     |       |                    |                 | 08/11/92                     |       |                    |                 |
|                                                                                   |                              | 06:47 | 9.97               | 353.70          |                              | 06:58 | 12.64              | 353.34          |                              | 06:58 | 14.76              | 353.38          |
|                                                                                   |                              | 12:47 | 9.92               | 353.75          |                              | 12:44 | 12.59              | 353.39          |                              | 12:45 | 14.71              | 353.43          |
|                                                                                   |                              | 14:50 |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   | 08/12/92                     | 17:13 | 9.95               | 353.72          | 08/12/92                     | 17:05 | 12.62              | 353.36          | 08/12/92                     | 17:04 | 14.72              | 353.42          |
|                                                                                   |                              | 05:50 |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 06:44 | 9.92               | 353.75          |                              | 06:55 | 12.56              | 353.42          |                              | 06:56 | 14.70              | 353.44          |
|                                                                                   |                              | 13:47 | 9.91               | 353.76          |                              | 13:44 | 12.56              | 353.42          |                              | 13:44 | 14.67              | 353.47          |
|                                                                                   |                              | 17:00 |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 18:32 | 9.85               | 353.82          |                              | 18:17 | 12.50              | 353.48          |                              | 18:18 | 14.63              | 353.51          |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     | 07:29 | 9.84               | 353.83          | 08/13/92                     |       |                    |                 | 08/13/92                     |       |                    |                 |
|                                                                                   |                              | 08:02 | 9.84               | 353.83          |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 08:22 | 9.83               | 353.84          |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 08:42 | 9.83               | 353.84          |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 09:02 | 9.82               | 353.85          |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 09:23 | 9.82               | 353.85          |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 09:40 |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 11:51 | 9.80               | 353.87          |                              | 11:49 | 12.47              | 353.51          |                              | 11:50 | 14.59              | 353.55          |
|                                                                                   |                              | 13:00 |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 14:40 |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     | 07:01 | 9.78               | 353.89          | 08/14/92                     | 07:14 | 12.43              | 353.55          | 08/14/92                     | 07:15 | 14.56              | 353.58          |
|                                                                                   |                              | 13:34 | 9.78               | 353.89          |                              | 13:31 | 12.42              | 353.56          |                              | 13:32 | 14.55              | 353.59          |
|                                                                                   |                              | 18:14 | 9.80               | 353.87          |                              | 18:10 | 12.44              | 353.54          |                              | 18:11 | 14.57              | 353.57          |
|                                                                                   | 08/15/92                     | 08:16 | 9.80               | 353.87          | 08/15/92                     | 08:12 | 12.45              | 353.53          | 08/15/92                     | 08:13 | 14.57              | 353.57          |
|                                                                                   |                              | 15:50 | 9.82               | 353.85          |                              | 15:46 | 12.46              | 353.52          |                              | 15:47 | 14.58              | 353.56          |
|                                                                                   | 08/16/92                     | 09:47 | 9.82               | 353.85          | 08/16/92                     | 09:32 | 12.44              | 353.54          | 08/16/92                     | 09:33 | 14.58              | 353.56          |
|                                                                                   |                              | 17:47 | 9.82               | 353.85          |                              | 17:36 | 12.44              | 353.54          |                              | 17:37 | 14.59              | 353.55          |
|                                                                                   | 08/17/92                     | 09:41 | 9.85               | 353.82          | 08/17/92                     | 09:53 | 12.46              | 353.52          | 08/17/92                     | 09:54 | 14.60              | 353.54          |
|                                                                                   |                              | 17:46 | 9.86               | 353.81          |                              | 18:00 | 12.47              | 353.51          |                              | 18:01 | 14.60              | 353.54          |
|                                                                                   | 08/18/92                     | 08:47 | 9.85               | 353.82          | 08/18/92                     | 09:02 | 12.47              | 353.51          | 08/18/92                     | 09:02 | 14.61              | 353.53          |
|                                                                                   |                              | 14:39 | 9.84               | 353.83          |                              | 14:26 | 12.46              | 353.52          |                              | 14:27 | 14.60              | 353.54          |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     | 18:57 | 9.85               | 353.82          | 08/19/92                     | 18:47 | 12.46              | 353.52          | 08/19/92                     | 18:47 | 14.60              | 353.54          |
|                                                                                   |                              | 08:00 |                    |                 |                              |       |                    |                 |                              |       |                    |                 |
|                                                                                   |                              | 08:21 | 9.89               | 353.78          |                              | 08:29 | 12.49              | 353.49          |                              | 08:29 | 14.64              | 353.50          |
|                                                                                   |                              | 08:38 | 9.89               | 353.78          |                              | 08:45 | 12.49              | 353.49          |                              | 08:45 | 14.64              | 353.50          |
|                                                                                   |                              | 08:57 | 9.89               | 353.78          |                              | 09:05 | 12.50              | 353.48          |                              | 09:06 | 14.64              | 353.50          |
|                                                                                   |                              | 09:16 | 9.89               | 353.78          |                              | 09:25 | 12.50              | 353.48          |                              | 09:26 | 14.64              | 353.50          |
|                                                                                   |                              | 09:39 | 9.89               | 353.78          |                              | 09:46 | 12.50              | 353.48          |                              | 09:46 | 14.64              | 353.50          |
|                                                                                   |                              | 11:22 | 9.89               | 353.78          |                              | 11:16 | 12.48              | 353.50          |                              | 11:16 | 14.66              | 353.48          |
|                                                                                   |                              | 13:05 | 9.94               | 353.73          |                              | 12:59 | 12.50              | 353.48          |                              | 13:00 | 14.67              | 353.47          |
|                                                                                   |                              | 14:46 | 9.96               | 353.71          |                              | 14:40 | 12.52              | 353.46          |                              | 14:41 | 14.68              | 353.46          |
|                                                                                   | 08/20/92                     | 16:23 | 9.96               | 353.71          |                              | 16:17 | 12.54              | 353.44          |                              | 16:18 | 14.71              | 353.43          |
|                                                                                   |                              | 20:18 | 10.02              | 353.65          |                              | 20:04 | 12.60              | 353.38          |                              | 20:05 | 14.76              | 353.38          |
|                                                                                   |                              | 08:43 | 10.16              | 353.51          |                              | 08:31 | 12.74              | 353.24          |                              | 08:32 | 14.90              | 353.24          |
|                                                                                   |                              | 13:57 | 10.21              | 353.46          |                              | 13:54 | 12.79              | 353.19          |                              | 13:54 | 14.94              | 353.20          |
|                                                                                   |                              | 19:08 | 10.23              | 353.44          |                              | 18:56 | 12.83              | 353.15          |                              | 18:57 | 14.98              | 353.16          |
|                                                                                   | 08/21/92                     | 07:59 | 10.38              | 353.29          | 08/21/92                     | 08:36 | 12.96              | 353.02          | 08/21/92                     | 08:37 | 15.10              | 353.04          |
|                                                                                   |                              | 14:17 | 10.37              | 353.30          |                              | 14:14 | 12.97              | 353.01          |                              | 14:15 | 15.12              | 353.02          |
|                                                                                   | 08/22/92                     | 16:57 | 10.53              | 353.14          | 08/22/92                     | 16:45 | 13.14              | 352.84          | 08/22/92                     | 16:47 | 15.39              | 352.75          |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

|                                                                                        | MW-28S<br>MPE = 356.94 famsl |       |                    |                 | MW-28I<br>MPE = 357.44 famsl |       |                    |                 | MW-28D<br>MPE = 357.04 famsl |       |                    |                 |
|----------------------------------------------------------------------------------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|
| notes                                                                                  | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                     |       |                    |                 | 08/03/92                     |       |                    |                 | 08/03/92                     |       |                    |                 |
|                                                                                        | 08/04/92                     |       |                    |                 | 08/04/92                     |       |                    |                 | 08/04/92                     |       |                    |                 |
|                                                                                        | 08/05/92                     | 17:57 | 7.04               | 349.90          | 08/05/92                     | 17:58 | 7.56               | 349.88          | 08/05/92                     | 17:53 | 7.16               | 349.88          |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                     | 07:30 | 7.03               | 349.91          | 08/06/92                     | 07:30 | 7.52               | 349.92          | 08/06/92                     | 07:31 | 7.12               | 349.92          |
|                                                                                        |                              | 12:29 | 6.98               | 349.96          |                              | 12:29 | 7.45               | 349.99          |                              | 12:30 | 7.05               | 349.99          |
|                                                                                        |                              | 16:27 | 6.88               | 350.06          |                              | 16:26 | 7.38               | 350.06          |                              | 16:28 | 6.96               | 350.08          |
|                                                                                        |                              | 18:57 | 6.80               | 350.14          |                              | 18:58 | 7.30               | 350.14          |                              | 18:59 | 6.89               | 350.15          |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                     | 06:55 | 6.50               | 350.44          | 08/07/92                     | 06:55 | 6.98               | 350.46          | 08/07/92                     | 06:56 | 6.58               | 350.46          |
|                                                                                        |                              | 12:11 | 6.37               | 350.57          |                              | 12:11 | 6.86               | 350.58          |                              | 12:12 | 6.47               | 350.57          |
|                                                                                        |                              | 16:44 | 6.24               | 350.70          |                              | 16:45 | 6.75               | 350.69          |                              | 16:44 | 6.34               | 350.70          |
|                                                                                        | 08/08/92                     | 10:22 | 5.94               | 351.00          | 08/08/92                     | 10:23 | 6.42               | 351.02          | 08/08/92                     | 10:23 | 6.03               | 351.01          |
|                                                                                        |                              | 17:08 | 5.52               | 351.42          |                              | 17:07 | 6.32               | 351.12          |                              | 17:09 | 5.88               | 351.16          |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/09/92                     | 11:42 | 5.50               | 351.44          | 08/09/92                     | 11:41 | 6.05               | 351.39          | 08/09/92                     | 11:43 | 5.64               | 351.40          |
|                                                                                        | 08/10/92                     | 08:31 | 5.32               | 351.62          | 08/10/92                     | 08:31 | 5.82               | 351.62          | 08/10/92                     | 08:32 | 5.41               | 351.63          |
|                                                                                        |                              | 13:11 | 5.38               | 351.56          |                              | 13:10 | 5.88               | 351.56          |                              | 13:12 | 5.46               | 351.58          |
|                                                                                        |                              | 17:11 | 5.43               | 351.51          |                              | 17:12 | 5.93               | 351.51          |                              | 17:10 | 5.52               | 351.52          |



|                                                                                   | MW-28S<br>MPE = 356.94 famsl |       |                          |                         | MW-28I<br>MPE = 357.44 famsl |       |                          |                         | MW-28D<br>MPE = 357.04 famsl |       |                          |                         |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|
| notes                                                                             | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
|                                                                                   | 08/11/92                     | 06:08 | 5.40                     | 351.54                  | 08/11/92                     | 06:09 | 5.93                     | 351.51                  | 08/11/92                     | 06:07 | 5.48                     | 351.56                  |
|                                                                                   |                              | 12:05 | 5.32                     | 351.62                  |                              | 12:04 | 5.84                     | 351.60                  |                              | 12:05 | 5.40                     | 351.64                  |
|                                                                                   |                              | 16:38 | 5.37                     | 351.57                  |                              | 16:37 | 5.87                     | 351.57                  |                              | 16:39 | 5.48                     | 351.56                  |
|                                                                                   | 08/12/92                     | 06:07 | 5.43                     | 351.51                  | 08/12/92                     | 06:08 | 5.94                     | 351.50                  | 08/12/92                     | 06:06 | 5.52                     | 351.52                  |
|                                                                                   |                              | 12:41 | 5.42                     | 351.52                  |                              | 12:41 | 5.90                     | 351.54                  |                              | 12:42 | 5.49                     | 351.55                  |
|                                                                                   |                              | 17:23 | 5.40                     | 351.54                  |                              | 17:25 | 5.90                     | 351.54                  |                              | 17:26 | 5.49                     | 351.55                  |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     | 07:27 | 5.38                     | 351.56                  | 08/13/92                     | 07:26 | 5.88                     | 351.56                  | 08/13/92                     | 07:28 | 5.47                     | 351.57                  |
|                                                                                   |                              | 11:54 | 5.47                     | 351.47                  |                              | 11:53 | 5.97                     | 351.47                  |                              | 11:55 | 5.57                     | 351.47                  |
|                                                                                   |                              | 16:04 | 5.50                     | 351.44                  |                              | 16:03 | 5.99                     | 351.45                  |                              | 16:05 | 5.60                     | 351.44                  |
|                                                                                   |                              | 18:57 | 5.52                     | 351.42                  |                              | 18:58 | 6.01                     | 351.43                  |                              | 18:58 | 5.60                     | 351.44                  |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     | 06:17 | 5.60                     | 351.34                  | 08/14/92                     | 06:18 | 6.14                     | 351.30                  | 08/14/92                     | 06:16 | 5.68                     | 351.36                  |
|                                                                                   |                              | 12:29 | 5.65                     | 351.29                  |                              | 12:28 | 6.19                     | 351.25                  |                              | 12:30 | 5.75                     | 351.29                  |
|                                                                                   |                              | 17:25 | 5.72                     | 351.22                  |                              | 17:26 | 6.22                     | 351.22                  |                              | 17:27 | 5.29                     | 351.75                  |
|                                                                                   | 08/15/92                     | 07:21 | 5.80                     | 351.14                  | 08/15/92                     | 07:20 | 6.31                     | 351.13                  | 08/15/92                     | 07:22 | 5.90                     | 351.14                  |
|                                                                                   |                              | 15:04 | 5.87                     | 351.07                  |                              | 15:03 | 6.39                     | 351.05                  |                              | 15:05 | 5.96                     | 351.08                  |
|                                                                                   | 08/16/92                     | 10:23 | 5.94                     | 351.00                  | 08/16/92                     | 10:22 | 6.46                     | 350.98                  | 08/16/92                     | 10:24 | 6.04                     | 351.00                  |
|                                                                                   |                              | 17:03 | 5.98                     | 350.96                  |                              | 17:04 | 6.49                     | 350.95                  |                              | 17:04 | 6.07                     | 350.97                  |
|                                                                                   | 08/17/92                     | 08:57 | 6.04                     | 350.90                  | 08/17/92                     | 08:58 | 6.57                     | 350.87                  | 08/17/92                     | 08:56 | 6.14                     | 350.90                  |
|                                                                                   |                              | 07:09 | 6.02                     | 350.92                  |                              | 17:08 | 6.55                     | 350.89                  |                              | 17:10 | 6.12                     | 350.92                  |
|                                                                                   | 08/18/92                     | 08:05 | 6.06                     | 350.88                  | 08/18/92                     | 08:06 | 6.56                     | 350.88                  | 08/18/92                     | 08:06 | 6.15                     | 350.89                  |
|                                                                                   |                              | 13:37 | 6.06                     | 350.88                  |                              | 13:38 | 6.57                     | 350.87                  |                              | 13:38 | 6.15                     | 350.89                  |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     |       |                          |                         | 08/19/92                     |       |                          |                         | 08/19/92                     |       |                          |                         |
|                                                                                   | 08/20/92                     |       |                          |                         | 08/20/92                     |       |                          |                         | 08/20/92                     |       |                          |                         |
|                                                                                   | 08/21/92                     | 14:44 | 8.36                     | 348.58                  | 08/21/92                     | 14:45 | 8.83                     | 348.61                  | 08/21/92                     | 14:45 | 8.36                     | 348.68                  |
|                                                                                   | 08/22/92                     | 16:31 | 8.56                     | 348.38                  | 08/22/92                     | 16:31 | 9.03                     | 348.41                  | 08/22/92                     | 16:32 | 8.53                     | 348.51                  |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

|                                                                                        | MW-29S<br>MPE = 355.27 famsl |       |                          |                         | MW-29I<br>MPE = 355.37 famsl |       |                          |                         | MW-29D<br>MPE = 355.25 famsl |       |                          |                         |
|----------------------------------------------------------------------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|
| notes                                                                                  | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                     |       |                          |                         | 08/03/92                     |       |                          |                         | 08/03/92                     |       |                          |                         |
|                                                                                        | 08/04/92                     |       |                          |                         | 08/04/92                     |       |                          |                         | 08/04/92                     |       |                          |                         |
|                                                                                        | 08/05/92                     |       |                          |                         | 08/05/92                     |       |                          |                         | 08/05/92                     |       |                          |                         |
|                                                                                        |                              | 17:53 | 5.46                     | 349.81                  |                              | 17:54 | 5.57                     | 349.80                  |                              | 17:55 | 5.44                     | 349.81                  |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                     | 07:27 | 5.42                     | 349.85                  | 08/06/92                     | 07:28 | 5.52                     | 349.85                  | 08/06/92                     | 07:28 | 5.44                     | 349.81                  |
|                                                                                        |                              | 12:32 | 5.35                     | 349.92                  |                              | 12:31 | 5.48                     | 349.89                  |                              | 12:31 | 5.36                     | 349.89                  |
|                                                                                        |                              | 16:31 | 5.26                     | 350.01                  |                              | 16:30 | 5.38                     | 349.99                  |                              | 16:29 | 5.25                     | 350.00                  |
|                                                                                        |                              | 19:02 | 5.17                     | 350.10                  |                              | 19:03 | 5.29                     | 350.08                  |                              | 19:04 | 5.17                     | 350.08                  |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                     | 07:24 | 4.87                     | 350.40                  | 08/07/92                     | 07:23 | 4.96                     | 350.41                  | 08/07/92                     | 06:59 | 4.85                     | 350.40                  |
|                                                                                        |                              | 12:07 | 4.74                     | 350.53                  |                              | 12:08 | 4.83                     | 350.54                  |                              | 12:08 | 4.74                     | 350.51                  |
|                                                                                        |                              |       |                          |                         |                              | 16:41 | 4.72                     | 350.65                  |                              |       |                          |                         |
|                                                                                        |                              | 16:40 | 4.61                     | 350.66                  |                              |       |                          |                         |                              | 16:42 | 4.63                     | 350.62                  |
|                                                                                        | 08/08/92                     | 10:26 | 4.29                     | 350.98                  | 08/08/92                     | 10:27 | 4.39                     | 350.98                  | 08/08/92                     | 10:27 | 4.3                      | 350.95                  |
|                                                                                        |                              | 17:14 | 4.16                     | 351.11                  |                              | 17:13 | 4.28                     | 351.09                  |                              | 17:12 | 4.16                     | 351.09                  |
|                                                                                        | 08/09/92                     | 11:49 | 3.91                     | 351.36                  | 08/09/92                     | 11:48 | 4.01                     | 351.36                  | 08/09/92                     | 11:47 | 3.91                     | 351.34                  |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                     | 08:28 | 3.68                     | 351.59                  | 08/10/92                     | 08:30 | 3.77                     | 351.60                  | 08/10/92                     | 08:30 | 3.69                     | 351.56                  |
|                                                                                        |                              | 13:16 | 3.75                     | 351.52                  |                              | 13:15 | 3.85                     | 351.52                  |                              | 13:14 | 3.76                     | 351.49                  |
|                                                                                        |                              | 17:06 | 3.79                     | 351.48                  |                              | 17:07 | 3.9                      | 351.47                  |                              | 17:08 | 3.79                     | 351.46                  |

|                                                                                   | MW-29S<br>MPE = 355.27 famsl |       |                    |                 | MW-29I<br>MPE = 355.37 famsl |       |                    |                 | MW-29D<br>MPE = 355.25 famsl |       |                    |                 |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|
| notes                                                                             | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                     | 06:04 | 3.75               | 351.52          | 08/11/92                     | 06:05 | 3.86               | 351.51          | 08/11/92                     | 06:06 | 3.77               | 351.48          |
|                                                                                   |                              | 12:09 | 3.70               | 351.57          |                              | 12:09 | 3.79               | 351.58          |                              | 12:08 | 3.66               | 351.59          |
|                                                                                   |                              | 16:44 | 3.74               | 351.53          |                              | 16:43 | 3.85               | 351.52          |                              | 16:42 | 3.75               | 351.50          |
|                                                                                   | 08/12/92                     | 06:01 | 3.78               | 351.49          | 08/12/92                     | 06:02 | 3.89               | 351.48          | 08/12/92                     | 06:03 | 3.79               | 351.46          |
|                                                                                   |                              | 12:47 | 3.78               | 351.49          |                              | 12:46 | 3.9                | 351.47          |                              | 12:45 | 3.78               | 351.47          |
|                                                                                   |                              | 17:29 | 3.77               | 351.50          |                              | 17:31 | 3.87               | 351.50          |                              | 17:33 | 3.78               | 351.47          |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     | 07:31 | 3.76               | 351.51          | 08/13/92                     | 07:31 | 3.85               | 351.52          | 08/13/92                     | 07:30 | 3.76               | 351.49          |
|                                                                                   |                              | 11:59 | 3.84               | 351.43          |                              | 11:58 | 3.92               | 351.45          |                              | 11:57 | 3.85               | 351.40          |
|                                                                                   |                              | 16:09 | 3.86               | 351.41          |                              | 16:08 | 3.99               | 351.38          |                              | 16:07 | 3.89               | 351.36          |
|                                                                                   |                              | 19:01 | 3.89               | 351.38          |                              | 19:02 | 4.02               | 351.35          |                              | 19:03 | 3.89               | 351.36          |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     | 06:10 | 4.00               | 351.27          | 08/14/92                     | 06:12 | 4.11               | 351.26          | 08/14/92                     | 06:15 | 3.99               | 351.26          |
|                                                                                   |                              | 12:34 | 4.04               | 351.23          |                              | 12:34 | 4.15               | 351.22          |                              | 12:33 | 4.04               | 351.21          |
|                                                                                   |                              | 17:28 | 4.09               | 351.18          |                              | 17:28 | 4.22               | 351.15          |                              | 17:30 | 4.09               | 351.16          |
|                                                                                   | 08/15/92                     | 07:29 | 4.20               | 351.07          | 08/15/92                     | 07:27 | 4.34               | 351.03          | 08/15/92                     | 07:25 | 4.18               | 351.07          |
|                                                                                   |                              | 15:09 | 4.28               | 350.99          |                              | 15:08 | 4.39               | 350.98          |                              | 15:07 | 4.26               | 350.99          |
|                                                                                   | 08/16/92                     | 10:28 | 4.34               | 350.93          | 08/16/92                     | 10:27 | 4.43               | 350.94          | 08/16/92                     | 10:26 | 4.33               | 350.92          |
|                                                                                   |                              | 17:06 | 4.36               | 350.91          |                              | 17:07 | 4.49               | 350.88          |                              | 17:07 | 4.27               | 350.98          |
|                                                                                   | 08/17/92                     | 08:52 | 4.42               | 350.85          | 08/17/92                     | 08:53 | 4.56               | 350.81          | 08/17/92                     | 08:54 | 4.44               | 350.81          |
|                                                                                   |                              | 17:16 | 4.41               | 350.86          |                              | 17:15 | 4.52               | 350.85          |                              | 17:14 | 4.42               | 350.83          |
|                                                                                   | 08/18/92                     | 08:09 | 4.44               | 350.83          | 08/18/92                     | 08:10 | 4.56               | 350.81          | 08/18/92                     | 08:10 | 4.45               | 350.80          |
|                                                                                   |                              | 13:42 | 4.45               | 350.82          |                              | 13:43 | 4.56               | 350.81          |                              | 13:43 | 4.45               | 350.80          |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     |       |                    |                 | 08/19/92                     |       |                    |                 | 08/19/92                     |       |                    |                 |
|                                                                                   | 08/20/92                     |       |                    |                 | 08/20/92                     |       |                    |                 | 08/20/92                     |       |                    |                 |
|                                                                                   | 08/21/92                     |       |                    |                 | 08/21/92                     |       |                    |                 | 08/21/92                     |       |                    |                 |
|                                                                                   |                              | 14:47 | 6.85               | 348.42          |                              | 14:48 | 6.83               | 348.54          |                              | 14:48 | 6.68               | 348.57          |
|                                                                                   | 08/22/92                     | 16:35 | 7.03               | 348.24          | 08/22/92                     | 16:34 | 7.05               | 348.32          | 08/22/92                     | 16:34 | 6.84               | 348.41          |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

|                                                                                        | MW-30S<br>MPE = 354.11 fmsl |       |                    |                 | MW-30I<br>MPE = 354.11 fmsl |       |                    |                 | MW-30D<br>MPE = 354.07 fmsl |       |                    |                 |
|----------------------------------------------------------------------------------------|-----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|
| notes                                                                                  | date                        | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                    |       |                    |                 | 08/03/92                    |       |                    |                 | 08/03/92                    |       |                    |                 |
|                                                                                        | 08/04/92                    |       |                    |                 | 08/04/92                    |       |                    |                 | 08/04/92                    |       |                    |                 |
|                                                                                        | 08/05/92                    |       |                    |                 | 08/05/92                    |       |                    |                 | 08/05/92                    |       |                    |                 |
|                                                                                        |                             | 18:05 | 4.40               | 349.71          |                             | 18:04 | 4.40               | 349.71          |                             | 18:03 | 4.40               | 349.67          |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                    | 07:25 | 4.38               | 349.73          | 08/06/92                    | 07:25 | 4.36               | 349.75          | 08/06/92                    | 07:26 | 4.36               | 349.71          |
|                                                                                        |                             | 08:24 | 4.38               | 349.73          |                             | 08:24 | 4.36               | 349.75          |                             | 08:25 | 4.36               | 349.71          |
|                                                                                        |                             | 08:47 | 4.38               | 349.73          |                             | 08:47 | 4.36               | 349.75          |                             | 08:48 | 4.36               | 349.71          |
|                                                                                        |                             | 09:06 | 4.37               | 349.74          |                             | 09:06 | 4.37               | 349.74          |                             | 09:07 | 4.35               | 349.72          |
|                                                                                        |                             | 09:27 | 4.36               | 349.75          |                             | 09:27 | 4.34               | 349.77          |                             | 09:28 | 4.35               | 349.72          |
|                                                                                        |                             | 09:54 | 4.36               | 349.75          |                             | 09:54 | 4.34               | 349.77          |                             | 09:55 | 4.34               | 349.73          |
|                                                                                        |                             | 11:37 | 4.32               | 349.79          |                             | 11:37 | 4.32               | 349.79          |                             | 11:38 | 4.30               | 349.77          |
|                                                                                        |                             | 12:26 | 4.30               | 349.81          |                             | 12:27 | 4.28               | 349.83          |                             | 12:27 | 4.28               | 349.79          |
|                                                                                        |                             | 13:27 | 4.26               | 349.85          |                             | 13:27 | 4.26               | 349.85          |                             | 13:28 | 4.23               | 349.84          |
|                                                                                        |                             | 15:00 | 4.22               | 349.89          |                             | 15:00 | 4.22               | 349.89          |                             | 15:01 | 4.19               | 349.88          |
|                                                                                        |                             | 16:58 | 4.19               | 349.92          |                             | 16:59 | 4.18               | 349.93          |                             | 16:59 | 4.14               | 349.93          |
|                                                                                        |                             | 19:06 | 4.10               | 350.01          |                             | 19:07 | 4.10               | 350.01          |                             | 19:08 | 4.05               | 350.02          |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                    | 07:25 | 3.77               | 350.34          | 08/07/92                    | 07:27 | 3.77               | 350.34          | 08/07/92                    | 07:27 | 3.73               | 350.34          |
|                                                                                        |                             | 12:03 | 3.66               | 350.45          |                             | 12:03 | 3.63               | 350.48          |                             | 12:04 | 3.61               | 350.46          |
|                                                                                        |                             | 12:44 | 3.64               | 350.47          |                             | 12:44 | 3.62               | 350.49          |                             | 12:45 | 3.59               | 350.48          |
|                                                                                        |                             | 12:58 | 3.63               | 350.48          |                             | 12:58 | 3.61               | 350.50          |                             | 12:59 | 3.59               | 350.48          |
|                                                                                        |                             | 13:40 | 3.63               | 350.48          |                             | 13:41 | 3.60               | 350.51          |                             | 13:41 | 3.58               | 350.49          |
|                                                                                        |                             | 16:37 | 3.52               | 350.59          |                             | 16:38 | 3.48               | 350.63          |                             | 16:38 | 3.51               | 350.56          |
|                                                                                        | 08/08/92                    | 10:33 | 3.19               | 350.92          | 08/08/92                    | 10:34 | 3.17               | 350.94          | 08/08/92                    | 10:34 | 3.15               | 350.92          |
|                                                                                        |                             | 17:16 | 3.06               | 351.05          |                             | 17:17 | 3.04               | 351.07          |                             | 17:17 | 3.02               | 351.05          |
|                                                                                        | 08/09/92                    | 11:51 | 2.80               | 351.31          | 08/09/92                    | 11:52 | 2.78               | 351.33          | 08/09/92                    | 11:53 | 2.74               | 351.33          |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                    | 09:13 | 2.58               | 351.53          | 08/10/92                    | 09:14 | 2.56               | 351.55          | 08/10/92                    | 09:15 | 2.52               | 351.55          |
|                                                                                        |                             | 09:27 | 2.57               | 351.54          |                             | 09:28 | 2.56               | 351.55          |                             | 09:29 | 2.52               | 351.55          |
|                                                                                        |                             | 09:49 | 2.60               | 351.51          |                             | 09:49 | 2.59               | 351.52          |                             | 09:48 | 2.55               | 351.52          |
|                                                                                        |                             | 10:08 | 2.60               | 351.51          |                             | 10:07 | 2.58               | 351.53          |                             | 10:06 | 2.55               | 351.52          |
|                                                                                        |                             | 10:29 | 2.60               | 351.51          |                             | 10:28 | 2.59               | 351.52          |                             | 10:27 | 2.55               | 351.52          |
|                                                                                        |                             | 12:08 | 2.62               | 351.49          |                             | 12:07 | 2.61               | 351.50          |                             | 12:06 | 2.57               | 351.50          |
|                                                                                        |                             | 13:46 | 2.65               | 351.46          |                             | 13:45 | 2.63               | 351.48          |                             | 13:44 | 2.58               | 351.49          |
|                                                                                        |                             | 15:29 | 2.65               | 351.46          |                             | 15:28 | 2.64               | 351.47          |                             | 15:27 | 2.60               | 351.47          |
|                                                                                        |                             | 17:04 | 2.68               | 351.43          |                             | 17:03 | 2.67               | 351.44          |                             | 17:02 | 2.64               | 351.43          |

|                                | MW-30S<br>MPE = 354.11 famsl |       |                          |                         | MW-30I<br>MPE = 354.11 famsl |       |                          |                         | MW-30D<br>MPE = 354.07 famsl |       |                          |                         |
|--------------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|
| notes                          | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
|                                | 08/11/92                     | 06:03 | 2.66                     | 351.45                  | 08/11/92                     | 06:02 | 2.65                     | 351.46                  | 08/11/92                     | 06:01 | 2.62                     | 351.45                  |
|                                |                              | 12:12 | 2.59                     | 351.52                  |                              | 12:13 | 2.60                     | 351.51                  |                              | 12:13 | 2.54                     | 351.53                  |
|                                |                              | 16:45 | 2.66                     | 351.45                  |                              | 16:46 | 2.64                     | 351.47                  |                              | 16:47 | 2.59                     | 351.48                  |
|                                | 08/12/92                     | 06:00 | 2.69                     | 351.42                  | 08/12/92                     | 05:59 | 2.66                     | 351.45                  | 08/12/92                     | 05:59 | 2.64                     | 351.43                  |
|                                |                              | 12:50 | 2.70                     | 351.41                  |                              | 12:51 | 2.65                     | 351.46                  |                              | 12:51 | 2.64                     | 351.43                  |
|                                |                              | 17:44 | 2.67                     | 351.44                  |                              | 17:45 | 2.67                     | 351.44                  |                              | 17:46 | 2.63                     | 351.44                  |
| 08/13 07:45<br>PHASE IVA START | 08/13/92                     | 07:33 | 2.67                     | 351.44                  | 08/13/92                     | 07:34 | 2.66                     | 351.45                  | 08/13/92                     | 07:34 | 2.60                     | 351.47                  |
|                                |                              | 08:06 | 2.68                     | 351.43                  |                              | 08:05 | 2.67                     | 351.44                  |                              | 08:04 | 2.63                     | 351.44                  |
|                                |                              | 08:27 | 2.68                     | 351.43                  |                              | 08:26 | 2.67                     | 351.44                  |                              | 08:25 | 2.64                     | 351.43                  |
| K-1 on 530gpm                  |                              | 08:50 | 2.69                     | 351.42                  |                              | 08:49 | 2.68                     | 351.43                  |                              | 08:48 | 2.65                     | 351.42                  |
| K-2/M-2 off                    |                              | 09:09 | 2.70                     | 351.41                  |                              | 09:08 | 2.69                     | 351.42                  |                              | 09:07 | 2.68                     | 351.39                  |
|                                |                              | 09:25 | 2.72                     | 351.39                  |                              | 09:24 | 2.70                     | 351.41                  |                              | 09:23 | 2.66                     | 351.41                  |
|                                |                              | 11:12 | 2.75                     | 351.36                  |                              | 11:11 | 2.73                     | 351.38                  |                              | 11:10 | 2.72                     | 351.35                  |
|                                |                              | 12:45 | 2.76                     | 351.35                  |                              | 12:46 | 2.76                     | 351.35                  |                              | 12:47 | 2.72                     | 351.35                  |
|                                |                              | 14:26 | 2.79                     | 351.32                  |                              | 14:25 | 2.78                     | 351.33                  |                              | 14:24 | 2.75                     | 351.32                  |
|                                |                              | 16:11 | 2.80                     | 351.31                  |                              | 16:12 | 2.79                     | 351.32                  |                              | 16:13 | 2.77                     | 351.30                  |
|                                |                              | 19:05 | 2.82                     | 351.29                  |                              | 19:06 | 2.81                     | 351.30                  |                              | 19:07 | 2.79                     | 351.28                  |
| 08/14 09:00<br>PHASE IVB START | 08/14/92                     | 06:09 | 2.92                     | 351.19                  | 08/14/92                     | 06:08 | 2.90                     | 351.21                  | 08/14/92                     | 06:07 | 2.89                     | 351.18                  |
|                                |                              | 12:37 | 2.98                     | 351.13                  |                              | 12:38 | 2.96                     | 351.15                  |                              | 12:39 | 2.91                     | 351.16                  |
|                                |                              | 17:34 | 3.03                     | 351.08                  |                              | 17:35 | 3.03                     | 351.08                  |                              | 17:36 | 3.00                     | 351.07                  |
| K-1 on 568gpm                  | 08/15/92                     | 07:32 | 3.14                     | 350.97                  | 08/15/92                     | 07:33 | 3.11                     | 351.00                  | 08/15/92                     | 07:33 | 3.09                     | 350.98                  |
| K-2/M-2 off                    |                              | 15:11 | 3.20                     | 350.91                  |                              | 15:12 | 3.19                     | 350.92                  |                              | 15:13 | 3.16                     | 350.91                  |
|                                | 08/16/92                     | 10:31 | 3.28                     | 350.83                  | 08/16/92                     | 10:31 | 3.27                     | 350.84                  | 08/16/92                     | 10:32 | 3.25                     | 350.82                  |
|                                |                              | 17:10 | 3.30                     | 350.81                  |                              | 17:10 | 3.30                     | 350.81                  |                              | 17:11 | 3.30                     | 350.77                  |
|                                | 08/17/92                     | 08:51 | 3.36                     | 350.75                  | 08/17/92                     | 08:50 | 3.37                     | 350.74                  | 08/17/92                     | 08:49 | 3.34                     | 350.73                  |
|                                |                              | 17:20 | 3.35                     | 350.76                  |                              | 17:21 | 3.32                     | 350.79                  |                              | 17:22 | 3.33                     | 350.74                  |
|                                | 08/18/92                     | 08:13 | 3.39                     | 350.72                  | 08/18/92                     | 08:14 | 3.38                     | 350.73                  | 08/18/92                     | 08:14 | 3.36                     | 350.71                  |
|                                |                              | 13:45 | 3.40                     | 350.71                  |                              | 13:46 | 3.38                     | 350.73                  |                              | 13:46 | 3.36                     | 350.71                  |
| 08/19 08:00<br>PHASE V START   | 08/19/92                     |       |                          |                         | 08/19/92                     |       |                          |                         | 08/19/92                     |       |                          |                         |
| K-2 on 45gpm                   |                              |       |                          |                         |                              |       |                          |                         |                              |       |                          |                         |
| M-2 on 60gpm                   |                              |       |                          |                         |                              |       |                          |                         |                              |       |                          |                         |
| K-1 on 557gpm                  |                              |       |                          |                         |                              |       |                          |                         |                              |       |                          |                         |
|                                | 08/20/92                     |       |                          |                         | 08/20/92                     |       |                          |                         | 08/20/92                     |       |                          |                         |
|                                | 08/21/92                     |       |                          |                         | 08/21/92                     |       |                          |                         | 08/21/92                     |       |                          |                         |
|                                |                              | 14:51 | 5.75                     | 348.36                  |                              | 14:51 | 5.68                     | 348.43                  |                              | 14:52 | 5.52                     | 348.55                  |
|                                | 08/22/92                     | 16:38 | 5.95                     | 348.16                  | 08/22/92                     | 16:39 | 5.86                     | 348.25                  | 08/22/92                     | 16:39 | 5.72                     | 348.35                  |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

|                                                                                        | MW-31S<br>MPE = 355.62 famsl |       |                          |                         | MW-31I<br>MPE = 355.67 famsl |       |                          |                         | MW-31D<br>MPE = 356.22 famsl |       |                          |                         |
|----------------------------------------------------------------------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|
| notes                                                                                  | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                     |       |                          |                         | 08/03/92                     |       |                          |                         | 08/03/92                     |       |                          |                         |
|                                                                                        | 08/04/92                     |       |                          |                         | 08/04/92                     |       |                          |                         | 08/04/92                     |       |                          |                         |
|                                                                                        | 08/05/92                     |       |                          |                         | 08/05/92                     |       |                          |                         | 08/05/92                     |       |                          |                         |
|                                                                                        |                              | 18:01 | 5.30                     | 350.32                  |                              | 18:00 | 5.87                     | 349.80                  |                              | 17:59 | 6.42                     | 349.80                  |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                     | 07:21 | 5.33                     | 350.29                  | 08/06/92                     | 07:21 | 5.83                     | 349.84                  | 08/06/92                     | 07:22 | 6.39                     | 349.83                  |
|                                                                                        |                              | 12:25 | 5.33                     | 350.29                  |                              | 12:26 | 5.78                     | 349.89                  |                              | 12:27 | 6.30                     | 349.92                  |
|                                                                                        |                              | 16:24 | 5.30                     | 350.32                  |                              | 16:25 | 5.69                     | 349.98                  |                              | 16:26 | 6.24                     | 349.98                  |
|                                                                                        |                              | 18:53 | 5.23                     | 350.39                  |                              | 18:54 | 5.61                     | 350.06                  |                              | 18:55 | 6.14                     | 350.08                  |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                     | 06:53 | 5.04                     | 350.58                  | 08/07/92                     | 06:53 | 5.30                     | 350.37                  | 08/07/92                     | 06:54 | 5.84                     | 350.38                  |
|                                                                                        |                              | 12:14 | 4.94                     | 350.68                  |                              | 12:14 | 5.17                     | 350.50                  |                              | 12:15 | 5.71                     | 350.51                  |
|                                                                                        |                              | 16:38 | 4.87                     | 350.75                  |                              | 16:47 | 5.06                     | 350.61                  |                              | 16:46 | 5.58                     | 350.64                  |
|                                                                                        | 08/08/92                     | 10:20 | 4.62                     | 351.00                  | 08/08/92                     | 10:21 | 4.73                     | 350.94                  | 08/08/92                     | 10:21 | 5.27                     | 350.95                  |
|                                                                                        |                              | 17:04 | 4.51                     | 351.11                  |                              | 17:05 | 4.59                     | 351.08                  |                              | 17:05 | 5.14                     | 351.08                  |
|                                                                                        | 08/09/92                     | 11:36 | 4.24                     | 351.38                  | 08/09/92                     | 11:38 | 4.31                     | 351.36                  | 08/09/92                     | 11:39 | 4.87                     | 351.35                  |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                     | 08:27 | 4.02                     | 351.60                  | 08/10/92                     | 08:28 | 4.05                     | 351.62                  | 08/10/92                     | 08:29 | 4.62                     | 351.60                  |
|                                                                                        |                              | 13:07 | 4.06                     | 351.56                  |                              | 13:08 | 4.10                     | 351.57                  |                              | 13:09 | 4.67                     | 351.55                  |
|                                                                                        |                              | 17:15 | 4.10                     | 351.52                  |                              | 17:14 | 4.15                     | 351.52                  |                              | 17:13 | 4.73                     | 351.49                  |



|                                                                                   | MW-31S<br>MPE = 355.62 famsl |       |                          |                         | MW-31I<br>MPE = 355.67 famsl |       |                          |                         | MW-31D<br>MPE = 356.22 famsl |       |                          |                         |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|
| notes                                                                             | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
|                                                                                   | 08/11/92                     | 06:12 | 4.02                     | 351.60                  | 08/11/92                     | 06:11 | 4.11                     | 351.56                  | 08/11/92                     | 06:10 | 4.70                     | 351.52                  |
|                                                                                   |                              | 12:01 | 5.37                     | 350.25                  |                              | 12:02 | 4.02                     | 351.65                  |                              | 12:03 | 4.62                     | 351.60                  |
|                                                                                   |                              | 16:35 | 4.02                     | 351.60                  |                              | 16:36 | 4.08                     | 351.59                  |                              | 16:47 | 4.67                     | 351.55                  |
|                                                                                   | 08/12/92                     | 06:09 | 4.04                     | 351.58                  | 08/12/92                     | 06:09 | 4.10                     | 351.57                  | 08/12/92                     | 06:08 | 4.72                     | 351.50                  |
|                                                                                   |                              | 12:38 | 4.04                     | 351.58                  |                              | 12:38 | 4.11                     | 351.56                  |                              | 12:39 | 4.71                     | 351.51                  |
|                                                                                   |                              | 17:19 | 4.04                     | 351.58                  |                              | 17:20 | 4.09                     | 351.58                  |                              | 17:21 | 4.70                     | 351.52                  |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     | 07:24 | 4.04                     | 351.58                  | 08/13/92                     | 07:25 | 4.08                     | 351.59                  | 08/13/92                     | 07:25 | 4.68                     | 351.54                  |
|                                                                                   |                              | 11:50 | 4.10                     | 351.52                  |                              | 11:51 | 4.13                     | 351.54                  |                              | 11:52 | 4.76                     | 351.46                  |
|                                                                                   |                              | 16:00 | 4.13                     | 351.49                  |                              | 16:01 | 4.19                     | 351.48                  |                              | 16:02 | 4.79                     | 351.43                  |
|                                                                                   |                              | 18:54 | 4.14                     | 351.48                  |                              | 18:55 | 4.20                     | 351.47                  |                              | 18:56 | 4.81                     | 351.41                  |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     | 06:22 | 4.20                     | 351.42                  | 08/14/92                     | 06:21 | 4.29                     | 351.38                  | 08/14/92                     | 06:20 | 4.92                     | 351.30                  |
|                                                                                   |                              | 12:24 | 4.27                     | 351.35                  |                              | 12:25 | 4.35                     | 351.32                  |                              | 12:26 | 4.95                     | 351.27                  |
|                                                                                   |                              | 17:19 | 4.30                     | 351.32                  |                              | 17:20 | 4.40                     | 351.27                  |                              | 17:21 | 5.02                     | 351.20                  |
|                                                                                   | 08/15/92                     | 07:17 | 4.41                     | 351.21                  | 08/15/92                     | 07:18 | 4.50                     | 351.17                  | 08/15/92                     | 07:19 | 5.11                     | 351.11                  |
|                                                                                   |                              | 15:00 | 4.46                     | 351.16                  |                              | 15:01 | 4.56                     | 351.11                  |                              | 15:02 | 5.17                     | 351.05                  |
|                                                                                   | 08/16/92                     | 10:19 | 4.53                     | 351.09                  | 08/16/92                     | 10:20 | 4.65                     | 351.02                  | 08/16/92                     | 10:20 | 5.26                     | 350.96                  |
|                                                                                   |                              | 17:01 | 4.56                     | 351.06                  |                              | 17:02 | 4.67                     | 351.00                  |                              | 17:02 | 5.28                     | 350.94                  |
|                                                                                   | 08/17/92                     | 09:00 | 4.61                     | 351.01                  | 08/17/92                     | 08:59 | 4.71                     | 350.96                  | 08/17/92                     | 08:59 | 5.35                     | 350.87                  |
|                                                                                   |                              | 17:05 | 4.64                     | 350.98                  |                              | 17:06 | 4.74                     | 350.93                  |                              | 17:07 | 5.34                     | 350.88                  |
|                                                                                   | 08/18/92                     | 08:03 | 4.65                     | 350.97                  | 08/18/92                     | 08:04 | 4.76                     | 350.91                  | 08/18/92                     | 08:04 | 5.36                     | 350.86                  |
|                                                                                   |                              | 13:35 | 4.66                     | 350.96                  |                              | 13:35 | 4.77                     | 350.90                  |                              | 13:36 | 5.37                     | 350.85                  |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     |       |                          |                         | 08/19/92                     |       |                          |                         | 08/19/92                     |       |                          |                         |
|                                                                                   | 08/20/92                     |       |                          |                         | 08/20/92                     |       |                          |                         | 08/20/92                     |       |                          |                         |
|                                                                                   | 08/21/92                     |       |                          |                         | 08/21/92                     |       |                          |                         | 08/21/92                     |       |                          |                         |
|                                                                                   |                              | 14:40 | 6.34                     | 349.28                  |                              | 14:40 | 6.57                     | 349.10                  |                              | 14:41 | 7.44                     | 348.78                  |
|                                                                                   | 08/22/92                     | 16:28 | 6.46                     | 349.16                  | 08/22/92                     | 16:28 | 6.77                     | 348.90                  | 08/22/92                     | 16:29 | 7.60                     | 348.62                  |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

|                                                                                        | MW-32D<br>MPE = 381.31 fmsl                                 |          |                       |                 | MW-34D<br>MPE = 385.08 fmsl |          |                       |                 | MW-35D<br>MPE = 381.36 fmsl |          |                       |                 |        |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------|----------|-----------------------|-----------------|-----------------------------|----------|-----------------------|-----------------|-----------------------------|----------|-----------------------|-----------------|--------|
| notes                                                                                  | date                                                        | time     | water level<br>(fbmp) | water elevation | date                        | time     | water level<br>(fbmp) | water elevation | date                        | time     | water level<br>(fbmp) | water elevation |        |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                                                    | 07:57    | 29.16                 | 352.15          | 08/03/92                    | 07:58    | 32.73                 | 352.35          | 08/03/92                    | 08:01    | 30.40                 | 350.96          |        |
|                                                                                        |                                                             | 08:19    | 29.16                 | 352.15          |                             | 08:20    | 32.73                 | 352.35          |                             | 08:20    | 30.39                 | 350.97          |        |
|                                                                                        |                                                             | 08:39    | 29.16                 | 352.15          |                             | 08:41    | 32.73                 | 352.35          |                             | 08:38    | 30.39                 | 350.97          |        |
|                                                                                        |                                                             | 08:56    | 29.16                 | 352.15          |                             | 08:59    | 32.72                 | 352.36          |                             | 08:57    | 30.39                 | 350.97          |        |
|                                                                                        |                                                             | 09:17    | 29.16                 | 352.15          |                             | 09:20    | 32.72                 | 352.36          |                             | 09:18    | 30.39                 | 350.97          |        |
|                                                                                        |                                                             | 09:38    | 29.16                 | 352.15          |                             | 09:40    | 32.72                 | 352.36          |                             | 09:39    | 30.38                 | 350.98          |        |
|                                                                                        |                                                             | 11:19    | 29.15                 | 352.16          |                             | 11:22    | 32.72                 | 352.36          |                             | 11:20    | 30.35                 | 351.01          |        |
|                                                                                        |                                                             | 12:57    | 29.14                 | 352.17          |                             | 13:01    | 32.71                 | 352.37          |                             | 12:59    | 30.33                 | 351.03          |        |
|                                                                                        |                                                             | 14:37    | 29.13                 | 352.18          |                             | 14:39    | 32.71                 | 352.37          |                             | 14:38    | 30.30                 | 351.06          |        |
|                                                                                        | 08/04/92                                                    | 16:18    | 29.12                 | 352.19          | 16:15                       | 32.70    | 352.38                | 16:16           | 30.27                       | 351.09   |                       |                 |        |
|                                                                                        |                                                             | 18:36    | 29.13                 | 352.18          | 18:30                       | 32.71    | 352.37                | 18:32           | 30.24                       | 351.12   |                       |                 |        |
|                                                                                        |                                                             | 07:08    | 29.00                 | 352.31          | 07:05                       | 32.61    | 352.47                | 07:07           | 29.95                       | 351.41   |                       |                 |        |
|                                                                                        | 08/05/92                                                    | 12:55    | 28.96                 | 352.35          | 12:59                       | 32.57    | 352.51                | 12:57           | 29.83                       | 351.53   |                       |                 |        |
|                                                                                        |                                                             | 18:50    | 28.88                 | 352.43          | 18:48                       | 32.51    | 352.57                | 18:51           | 29.73                       | 351.63   |                       |                 |        |
|                                                                                        |                                                             | 07:05    | 28.76                 | 352.55          | 07:03                       | 32.39    | 352.69                | 07:06           | 29.57                       | 351.79   |                       |                 |        |
|                                                                                        |                                                             | 19:43    | 29.00                 | 352.31          | 19:42                       | 32.28    | 352.80                | 19:42           | 29.50                       | 351.86   |                       |                 |        |
|                                                                                        | 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off | 08/06/92 | 06:29                 | 28.58           | 352.73                      | 08/06/92 | 06:26                 | 32.24           | 352.84                      | 08/06/92 | 06:31                 | 29.44           | 351.92 |
|                                                                                        |                                                             |          | 13:22                 | 28.57           | 352.74                      |          | 13:21                 | 32.20           | 352.88                      |          | 13:24                 | 29.42           | 351.94 |
| 16:52                                                                                  |                                                             |          | 28.55                 | 352.76          | 16:53                       |          | 32.19                 | 352.89          | 16:54                       |          | 29.39                 | 351.97          |        |
| 18:17                                                                                  |                                                             |          | 28.51                 | 352.80          | 18:14                       |          | 32.15                 | 352.93          | 18:16                       |          | 29.36                 | 352.00          |        |
|                                                                                        |                                                             |          |                       |                 |                             |          |                       |                 |                             |          |                       |                 |        |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                                                    | 06:57    | 28.47                 | 352.84          | 08/07/92                    | 06:55    | 32.13                 | 352.95          | 08/07/92                    | 06:58    | 29.26                 | 352.10          |        |
|                                                                                        |                                                             | 12:19    | 28.41                 | 352.90          |                             | 12:18    | 32.05                 | 353.03          |                             | 12:20    | 29.20                 | 352.16          |        |
|                                                                                        |                                                             | 15:43    | 28.40                 | 352.91          |                             | 15:43    | 32.05                 | 353.03          |                             | 15:46    | 29.20                 | 352.16          |        |
|                                                                                        |                                                             | 08/08/92 | 10:40                 | 28.30           |                             | 353.01   | 10:38                 | 31.97           |                             | 353.11   | 10:41                 | 29.03           | 352.33 |
|                                                                                        |                                                             | 17:24    | 28.26                 | 353.05          |                             | 17:27    | 31.93                 | 353.15          |                             | 17:26    | 28.98                 | 352.38          |        |
| 08/09/92                                                                               | 12:03                                                       | 28.14    | 353.17                | 08/09/92        | 12:01                       | 31.82    | 353.26                | 08/09/92        | 12:05                       | 28.82    | 352.54                |                 |        |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                                                    | 08:41    | 28.06                 | 353.25          | 08/10/92                    | 08:39    | 31.72                 | 353.36          | 08/10/92                    | 08:38    | 28.72                 | 352.64          |        |
|                                                                                        |                                                             | 13:11    | 27.98                 | 353.33          |                             | 13:14    | 31.68                 | 353.40          |                             | 13:13    | 28.66                 | 352.70          |        |
|                                                                                        |                                                             | 17:05    | 27.99                 | 353.32          |                             | 17:07    | 31.68                 | 353.40          |                             | 17:05    | 28.65                 | 352.71          |        |

|                                                                                   | MW-32D<br>MPE = 381.31 famsl |       |                       |                 | MW-34D<br>MPE = 385.08 famsl |       |                       |                 | MW-35D<br>MPE = 381.36 famsl |       |                       |                 |
|-----------------------------------------------------------------------------------|------------------------------|-------|-----------------------|-----------------|------------------------------|-------|-----------------------|-----------------|------------------------------|-------|-----------------------|-----------------|
| notes                                                                             | date                         | time  | water level<br>(fbmp) | water elevation | date                         | time  | water level<br>(fbmp) | water elevation | date                         | time  | water level<br>(fbmp) | water elevation |
|                                                                                   | 08/11/92                     | 06:15 | 27.98                 | 353.33          | 08/11/92                     | 06:14 | 31.68                 | 353.40          | 08/11/92                     | 06:16 | 28.64                 | 352.72          |
|                                                                                   |                              | 12:17 | 27.92                 | 353.39          |                              | 12:20 | 31.62                 | 353.46          |                              | 12:18 | 28.59                 | 352.77          |
|                                                                                   |                              | 18:02 | 27.93                 | 353.38          |                              | 18:01 | 31.62                 | 353.46          |                              | 18:04 | 28.60                 | 352.76          |
|                                                                                   | 08/12/92                     | 06:15 | 27.91                 | 353.40          | 08/12/92                     | 06:14 | 31.60                 | 353.48          | 08/12/92                     | 06:16 | 28.57                 | 352.79          |
|                                                                                   |                              | 13:12 | 27.87                 | 353.44          |                              | 13:16 | 31.56                 | 353.52          |                              | 13:14 | 28.57                 | 352.79          |
|                                                                                   |                              | 17:53 | 27.82                 | 353.49          |                              | 17:56 | 31.51                 | 353.57          |                              | 17:55 | 28.53                 | 352.83          |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     | 06:44 | 27.80                 | 353.51          | 08/13/92                     | 06:48 | 31.48                 | 353.60          | 08/13/92                     | 06:46 | 28.50                 | 352.86          |
|                                                                                   |                              | 09:31 | 27.79                 | 353.52          |                              | 09:34 | 31.47                 | 353.61          |                              | 09:32 | 28.50                 | 352.86          |
|                                                                                   |                              | 11:46 | 27.78                 | 353.53          |                              | 11:48 | 31.47                 | 353.61          |                              | 11:47 | 28.50                 | 352.86          |
|                                                                                   |                              | 16:09 | 27.78                 | 353.53          |                              | 16:12 | 31.46                 | 353.62          |                              | 16:10 | 28.49                 | 352.87          |
|                                                                                   |                              | 18:20 | 27.79                 | 353.52          |                              | 18:16 | 31.47                 | 353.61          |                              | 18:18 | 28.53                 | 352.83          |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     | 06:27 | 27.73                 | 353.58          | 08/14/92                     | 06:25 | 31.44                 | 353.64          | 08/14/92                     | 06:29 | 28.52                 | 352.84          |
|                                                                                   |                              | 12:58 | 27.74                 | 353.57          |                              | 13:00 | 31.42                 | 353.66          |                              | 12:59 | 28.52                 | 352.84          |
|                                                                                   |                              | 17:46 | 27.75                 | 353.56          |                              | 17:43 | 31.43                 | 353.65          |                              | 17:45 | 28.55                 | 352.81          |
|                                                                                   | 08/15/92                     | 07:40 | 27.73                 | 353.58          | 08/15/92                     | 07:44 | 31.41                 | 353.67          | 08/15/92                     | 07:42 | 28.57                 | 352.79          |
|                                                                                   |                              | 15:18 | 27.75                 | 353.56          |                              | 15:17 | 31.43                 | 353.65          |                              | 15:19 | 28.58                 | 352.78          |
|                                                                                   | 08/16/92                     | 10:05 | 27.72                 | 353.59          | 08/16/92                     | 10:01 | 10.37                 | 374.71          | 08/16/92                     | 10:03 | 28.58                 | 352.78          |
|                                                                                   |                              | 17:18 | 27.73                 | 353.58          |                              | 17:17 | 31.39                 | 353.69          |                              | 17:20 | 28.62                 | 352.74          |
|                                                                                   | 08/17/92                     | 09:04 | 27.71                 | 353.60          | 08/17/92                     | 09:03 | 31.36                 | 353.72          | 08/17/92                     | 09:06 | 28.60                 | 352.76          |
|                                                                                   |                              | 17:29 | 27.74                 | 353.57          |                              | 17:28 | 31.40                 | 353.68          |                              | 17:30 | 28.63                 | 352.73          |
|                                                                                   | 08/18/92                     | 08:22 | 27.73                 | 353.58          | 08/18/92                     | 08:21 | 31.37                 | 353.71          | 08/18/92                     | 08:24 | 28.63                 | 352.73          |
|                                                                                   |                              | 14:03 | 27.71                 | 353.60          |                              | 14:00 | 31.36                 | 353.72          |                              | 14:04 | 28.62                 | 352.74          |
|                                                                                   |                              | 18:30 | 27.72                 | 353.59          |                              | 18:29 | 31.36                 | 353.72          |                              | 18:32 | 28.62                 | 352.74          |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     | 08:11 | 27.72                 | 353.59          | 08/19/92                     | 08:08 | 31.37                 | 353.71          | 08/19/92                     | 08:09 | 28.63                 | 352.73          |
|                                                                                   |                              | 08:26 | 27.72                 | 353.59          |                              | 08:24 | 31.36                 | 353.72          |                              | 08:25 | 28.62                 | 352.74          |
|                                                                                   |                              | 08:46 | 27.72                 | 353.59          |                              | 08:44 | 31.36                 | 353.72          |                              | 08:45 | 28.62                 | 352.74          |
|                                                                                   |                              | 09:02 | 27.72                 | 353.59          |                              | 09:00 | 31.36                 | 353.72          |                              | 09:01 | 28.64                 | 352.72          |
|                                                                                   |                              | 09:23 | 27.74                 | 353.57          |                              | 09:21 | 31.36                 | 353.72          |                              | 09:23 | 28.64                 | 352.72          |
|                                                                                   |                              | 09:43 | 27.72                 | 353.59          |                              | 09:41 | 31.36                 | 353.72          |                              | 09:42 | 28.64                 | 352.72          |
|                                                                                   |                              | 11:17 | 27.74                 | 353.57          |                              | 11:15 | 31.36                 | 353.72          |                              | 11:16 | 28.68                 | 352.68          |
|                                                                                   |                              | 13:02 | 27.74                 | 353.57          |                              | 13:00 | 31.37                 | 353.71          |                              | 13:01 | 28.72                 | 352.64          |
|                                                                                   |                              | 14:41 | 27.74                 | 353.57          |                              | 14:38 | 31.37                 | 353.71          |                              | 14:40 | 28.76                 | 352.60          |
|                                                                                   |                              | 16:18 | 27.76                 | 353.55          |                              | 16:16 | 31.38                 | 353.70          |                              | 16:18 | 28.79                 | 352.57          |
|                                                                                   |                              | 19:38 | 27.80                 | 353.51          |                              | 19:36 | 31.42                 | 353.66          |                              | 19:40 | 28.88                 | 352.48          |
|                                                                                   | 08/20/92                     | 08:07 | 27.91                 | 353.40          | 08/20/92                     | 08:05 | 31.49                 | 353.59          | 08/20/92                     | 08:08 | 29.09                 | 352.27          |
|                                                                                   |                              | 13:27 | 27.94                 | 353.37          |                              | 13:26 | 31.52                 | 353.56          |                              | 13:28 | 29.14                 | 352.22          |
|                                                                                   |                              | 18:36 | 27.98                 | 353.33          |                              | 18:33 | 31.55                 | 353.53          |                              | 18:35 | 29.19                 | 352.17          |
|                                                                                   | 08/21/92                     | 07:36 | 28.09                 | 353.22          | 08/21/92                     | 07:35 | 31.66                 | 353.42          | 08/21/92                     | 07:37 | 29.34                 | 352.02          |
|                                                                                   |                              | 13:45 | 28.11                 | 353.20          |                              | 13:43 | 31.66                 | 353.42          |                              | 13:44 | 29.37                 | 351.99          |
|                                                                                   | 08/22/92                     | 17:48 | 28.31                 | 353.00          | 08/22/92                     | 17:45 | 31.86                 | 353.22          | 08/22/92                     | 17:47 | 29.55                 | 351.81          |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

|                                                                                        | MW-38S<br>MPE = 373.61 famsl |       |                          |                         | MW-39S<br>MPE = 372.26 famsl |       |                          |                         | MW-42S<br>MPE = 354.06 |       |                          |                         |
|----------------------------------------------------------------------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------|-------|--------------------------|-------------------------|
| notes                                                                                  | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                   | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                     | 08:04 | 12.03                    | 361.58                  | 08/03/92                     | 08:00 |                          |                         | 08/03/92               |       |                          |                         |
|                                                                                        |                              | 08:20 |                          |                         |                              | 08:00 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 08:40 |                          |                         |                              | 08:13 | 12.43                    | 359.83                  |                        | 08:25 | 10.36                    | 343.70                  |
|                                                                                        |                              | 09:00 |                          |                         |                              | 08:40 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 09:20 |                          |                         |                              | 09:00 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 09:47 | 12.04                    | 361.57                  |                              | 09:20 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 10:00 |                          |                         |                              | 09:50 | 12.44                    | 359.82                  |                        |       |                          |                         |
|                                                                                        |                              | 11:29 | 12.04                    | 361.57                  |                              | 10:00 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 12:10 |                          |                         |                              | 11:32 | 12.44                    | 359.82                  |                        |       |                          |                         |
|                                                                                        |                              | 13:09 | 12.04                    | 361.57                  |                              | 12:10 |                          |                         |                        | 12:20 | 10.36                    | 343.70                  |
|                                                                                        |                              | 14:49 | 12.04                    | 361.57                  |                              | 13:11 | 12.44                    | 359.82                  |                        |       |                          |                         |
|                                                                                        |                              | 16:27 | 12.04                    | 361.57                  |                              | 14:52 | 12.44                    | 359.82                  |                        |       |                          |                         |
|                                                                                        |                              | 17:53 | 12.01                    | 361.60                  |                              | 16:30 | 12.43                    | 359.83                  |                        | 16:24 | 10.36                    | 343.70                  |
|                                                                                        | 08/04/92                     | 07:17 | 11.68                    | 361.93                  |                              | 17:56 | 12.44                    | 359.82                  |                        | 18:55 | 10.24                    | 343.82                  |
|                                                                                        |                              | 12:17 | 11.58                    | 362.03                  | 08/04/92                     | 07:20 | 12.04                    | 360.22                  | 08/04/92               | 06:44 | 9.88                     | 344.18                  |
|                                                                                        |                              | 19:03 | 11.46                    | 362.15                  |                              | 12:22 | 11.94                    | 360.32                  |                        | 13:37 | 9.80                     | 344.26                  |
|                                                                                        | 08/05/92                     | 06:20 | 11.43                    | 362.18                  |                              | 18:58 | 11.82                    | 360.44                  |                        | 19:54 | 9.82                     | 344.24                  |
|                                                                                        |                              | 12:26 | 11.47                    | 362.14                  | 08/05/92                     | 06:16 | 11.74                    | 360.52                  | 08/05/92               | 07:35 | 9.78                     | 344.28                  |
|                                                                                        |                              | 19:47 | 11.49                    | 362.12                  |                              | 12:29 | 11.74                    | 360.52                  |                        | 12:29 | 9.59                     | 344.47                  |
|                                                                                        |                              |       |                          |                         |                              | 19:50 | 11.73                    | 360.53                  |                        | 19:33 | 9.36                     | 344.70                  |
|                                                                                        |                              |       |                          |                         |                              |       |                          |                         |                        |       |                          |                         |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                     | 06:43 | 11.55                    | 362.06                  | 08/06/92                     | 06:38 | 11.76                    | 360.50                  | 08/06/92               | 07:53 | 9.22                     | 344.84                  |
|                                                                                        |                              | 08:20 |                          |                         |                              | 08:20 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 08:35 |                          |                         |                              | 08:35 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 08:50 |                          |                         |                              | 08:50 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 09:10 |                          |                         |                              | 09:10 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 09:30 |                          |                         |                              | 09:30 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 09:50 | 11.58                    | 362.03                  |                              | 09:44 | 11.77                    | 360.49                  |                        | 09:53 | 9.18                     | 344.88                  |
|                                                                                        |                              | 10:40 |                          |                         |                              | 10:40 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 11:34 | 11.58                    | 362.03                  |                              | 11:29 | 11.77                    | 360.49                  |                        |       |                          |                         |
|                                                                                        |                              | 12:20 |                          |                         |                              | 12:20 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 13:16 | 11.57                    | 362.04                  |                              | 13:11 | 11.77                    | 360.49                  |                        | 13:09 | 9.16                     | 344.90                  |
|                                                                                        |                              | 14:00 |                          |                         |                              | 14:00 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 14:56 | 11.56                    | 362.05                  |                              | 14:51 | 11.76                    | 360.50                  |                        | 14:48 | 9.14                     | 344.92                  |
|                                                                                        |                              | 15:40 |                          |                         |                              | 15:40 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 16:33 | 11.54                    | 362.07                  |                              | 16:28 | 11.75                    | 360.51                  |                        | 16:37 | 9.12                     | 344.94                  |
|                                                                                        |                              | 17:00 |                          |                         |                              | 17:00 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 18:23 | 11.53                    | 362.08                  |                              | 18:24 | 11.75                    | 360.51                  |                        |       |                          |                         |
|                                                                                        |                              | 19:10 |                          |                         |                              | 19:10 |                          |                         |                        |       |                          |                         |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                     | 07:30 | 11.58                    | 362.03                  | 08/07/92                     | 07:11 | 11.80                    | 360.46                  | 08/07/92               | 08:40 | 8.75                     | 345.31                  |
|                                                                                        |                              | 11:50 |                          |                         |                              | 11:50 |                          |                         |                        | 11:43 | 8.67                     | 345.39                  |
|                                                                                        |                              | 12:00 |                          |                         |                              | 12:00 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 12:31 | 11.56                    | 362.05                  |                              | 12:26 | 11.78                    | 360.48                  |                        |       |                          |                         |
|                                                                                        |                              | 12:50 |                          |                         |                              | 12:50 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 13:10 |                          |                         |                              | 13:10 |                          |                         |                        |       |                          |                         |
|                                                                                        | 08/08/92                     | 13:30 |                          |                         | 08/08/92                     | 13:30 |                          |                         | 08/08/92               | 14:44 | 8.60                     | 345.46                  |
|                                                                                        |                              | 16:17 | 11.53                    | 362.08                  |                              | 16:05 | 11.79                    | 360.47                  |                        |       |                          |                         |
|                                                                                        |                              | 10:57 | 11.53                    | 362.08                  |                              | 10:49 | 11.80                    | 360.46                  |                        | 11:00 | 8.04                     | 346.02                  |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/09/92                     | 17:33 | 11.50                    | 362.11                  | 08/09/92                     | 18:07 | 11.79                    | 360.47                  | 08/09/92               |       |                          |                         |
|                                                                                        |                              | 12:23 | 11.49                    | 362.12                  |                              | 12:15 | 11.73                    | 360.53                  |                        |       |                          |                         |
|                                                                                        |                              |       |                          |                         |                              |       |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 08:50 |                          |                         |                              | 08:50 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 09:10 |                          |                         |                              | 09:10 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 09:30 |                          |                         |                              | 09:30 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 09:50 |                          |                         |                              | 09:50 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 10:10 |                          |                         |                              | 10:10 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 10:30 |                          |                         |                              | 10:30 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 12:12 | 11.53                    | 362.08                  |                              | 12:16 | 11.76                    | 360.50                  |                        |       |                          |                         |
|                                                                                        |                              | 13:00 |                          |                         |                              | 13:00 |                          |                         |                        |       |                          |                         |
|                                                                                        |                              | 13:53 | 11.48                    | 362.13                  |                              | 13:57 | 11.73                    | 360.53                  |                        |       |                          |                         |
|                                                                                        |                              | 15:40 | 11.43                    | 362.18                  |                              | 15:42 | 11.70                    | 360.56                  |                        |       |                          |                         |
|                                                                                        |                              | 17:13 | 11.44                    | 362.17                  |                              | 17:14 | 11.71                    | 360.55                  |                        |       |                          |                         |
|                                                                                        |                              |       |                          |                         |                              |       |                          |                         |                        | 17:30 | 6.75                     | 347.31                  |
|                                                                                        |                              |       |                          |                         |                              |       |                          |                         |                        |       |                          |                         |

|                                                                                   | MW-38S<br>MPE = 373.61 famsl |       |                    |                 | MW-39S<br>MPE = 372.26 famsl |       |                    |                 | MW-42S<br>MPE = 354.06 |       |                    |                 |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|------------------------|-------|--------------------|-----------------|
| notes                                                                             | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation | date                   | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                     | 06:00 |                    |                 | 08/11/92                     | 06:00 |                    |                 | 08/11/92               |       |                    |                 |
|                                                                                   |                              | 06:29 | 11.50              | 362.11          |                              | 06:24 | 11.75              | 360.51          |                        |       |                    |                 |
|                                                                                   |                              | 12:27 | 11.57              | 362.04          |                              | 12:30 | 11.78              | 360.48          |                        |       |                    |                 |
|                                                                                   |                              | 14:50 |                    |                 |                              | 14:50 |                    |                 |                        |       |                    |                 |
|                                                                                   |                              | 17:48 | 11.59              | 362.02          |                              | 17:56 | 11.80              | 360.46          |                        | 17:00 | 6.52               | 347.54          |
|                                                                                   | 08/12/92                     | 05:50 |                    |                 | 08/12/92                     | 05:50 |                    |                 | 08/12/92               |       |                    |                 |
|                                                                                   |                              | 06:29 | 11.71              | 361.90          |                              | 06:23 | 11.86              | 360.40          |                        |       |                    |                 |
|                                                                                   |                              | 13:23 | 11.78              | 361.83          |                              | 13:26 | 11.94              | 360.32          |                        |       |                    |                 |
|                                                                                   |                              | 17:00 |                    |                 |                              | 17:00 |                    |                 |                        |       |                    |                 |
|                                                                                   |                              | 18:12 | 11.76              | 361.85          |                              | 18:05 | 11.92              | 360.34          |                        |       |                    |                 |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     | 06:53 | 11.79              | 361.82          | 08/13/92                     | 06:55 | 11.97              | 360.29          | 08/13/92               |       |                    |                 |
|                                                                                   |                              | 08:00 |                    |                 |                              | 08:00 |                    |                 |                        |       |                    |                 |
|                                                                                   |                              | 08:20 |                    |                 |                              | 08:20 |                    |                 |                        |       |                    |                 |
|                                                                                   |                              | 08:40 |                    |                 |                              | 08:40 |                    |                 |                        |       |                    |                 |
|                                                                                   |                              | 09:00 |                    |                 |                              | 09:00 |                    |                 |                        |       |                    |                 |
|                                                                                   |                              | 09:20 |                    |                 |                              | 09:20 |                    |                 |                        |       |                    |                 |
|                                                                                   |                              | 09:38 | 11.81              | 361.80          |                              | 09:40 | 11.98              | 360.28          |                        |       |                    |                 |
|                                                                                   |                              | 11:14 | 11.81              | 361.80          |                              | 11:17 | 11.99              | 360.27          |                        |       |                    |                 |
|                                                                                   |                              | 12:48 | 11.78              | 361.83          |                              | 12:50 | 11.99              | 360.27          |                        |       |                    |                 |
|                                                                                   |                              | 14:23 | 11.77              | 361.84          |                              | 14:26 | 11.99              | 360.27          |                        |       |                    |                 |
|                                                                                   |                              | 16:01 | 11.77              | 361.84          |                              | 16:06 | 11.98              | 360.28          |                        |       |                    |                 |
|                                                                                   |                              | 18:28 | 11.75              | 361.86          |                              | 18:31 | 11.96              | 360.30          |                        |       |                    |                 |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     | 06:42 | 11.45              | 362.16          | 08/14/92                     | 06:36 | 11.94              | 360.32          | 08/14/92               |       |                    |                 |
|                                                                                   |                              | 13:07 | 11.79              | 361.82          |                              | 13:12 | 11.99              | 360.27          |                        |       |                    |                 |
|                                                                                   |                              | 17:54 | 11.82              | 361.79          |                              | 17:56 | 12.01              | 360.25          |                        |       |                    |                 |
|                                                                                   | 08/15/92                     | 07:52 | 11.90              | 361.71          | 08/15/92                     | 07:55 | 12.08              | 360.18          | 08/15/92               | 08:10 | 6.99               | 347.07          |
|                                                                                   |                              | 15:33 | 11.85              | 361.76          |                              | 15:26 | 12.08              | 360.18          |                        |       |                    |                 |
|                                                                                   | 08/16/92                     | 09:17 | 11.89              | 361.72          | 08/16/92                     | 09:23 | 12.11              | 360.15          | 08/16/92               | 10:10 | 7.30               | 346.76          |
|                                                                                   |                              | 17:31 | 11.88              | 361.73          |                              | 17:26 | 12.11              | 360.15          |                        |       |                    |                 |
|                                                                                   | 08/17/92                     | 09:19 | 12.01              | 361.60          | 08/17/92                     | 09:13 | 12.19              | 360.07          | 08/17/92               | 17:40 | 7.48               | 346.58          |
|                                                                                   |                              | 18:07 | 11.98              | 361.63          |                              | 18:03 | 12.20              | 360.06          |                        |       |                    |                 |
|                                                                                   | 08/18/92                     | 08:35 | 12.00              | 361.61          | 08/18/92                     | 08:30 | 12.22              | 360.04          | 08/18/92               |       |                    |                 |
|                                                                                   |                              | 14:21 | 11.96              | 361.65          |                              | 14:12 | 12.19              | 360.07          |                        | 11:54 | 7.68               | 346.38          |
|                                                                                   |                              | 18:44 | 11.96              | 361.65          |                              | 18:38 | 12.19              | 360.07          |                        | 19:32 | 7.76               | 346.30          |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     | 08:00 |                    |                 | 08/19/92                     | 08:00 |                    |                 | 08/19/92               | 08:06 | 7.92               | 346.14          |
|                                                                                   |                              | 08:17 | 12.12              | 361.49          |                              | 08:19 | 12.25              | 360.01          |                        |       |                    |                 |
|                                                                                   |                              | 08:40 |                    |                 |                              | 08:40 |                    |                 |                        |       |                    |                 |
|                                                                                   |                              | 09:00 |                    |                 |                              | 09:00 |                    |                 |                        |       |                    |                 |
|                                                                                   |                              | 09:20 |                    |                 |                              | 09:20 |                    |                 |                        |       |                    |                 |
|                                                                                   |                              | 09:50 | 12.08              | 361.53          |                              | 09:52 | 12.25              | 360.01          |                        |       |                    |                 |
|                                                                                   |                              | 11:20 |                    |                 |                              | 11:20 |                    |                 |                        |       |                    |                 |
|                                                                                   |                              | 13:00 |                    |                 |                              | 13:00 |                    |                 |                        | 12:10 | 7.96               | 346.10          |
|                                                                                   |                              | 14:40 |                    |                 |                              | 14:40 |                    |                 |                        | 14:37 | 8.01               | 346.05          |
|                                                                                   |                              | 16:25 | 12.13              | 361.48          |                              | 16:27 | 12.27              | 359.99          |                        |       |                    |                 |
|                                                                                   |                              | 19:56 | 12.18              | 361.43          |                              | 19:49 | 12.31              | 359.95          |                        | 18:58 | 8.04               | 346.02          |
|                                                                                   | 08/20/92                     | 08:21 | 12.31              | 361.30          | 08/20/92                     | 08:16 | 12.39              | 359.87          | 08/20/92               | 09:11 | 8.21               | 345.85          |
|                                                                                   |                              | 13:12 | 12.58              | 361.03          |                              | 13:18 | 12.42              | 359.84          |                        | 14:32 | 8.31               | 345.75          |
|                                                                                   |                              | 18:47 | 12.33              | 361.28          |                              | 18:42 | 12.43              | 359.83          |                        | 19:55 | 8.36               | 345.70          |
|                                                                                   | 08/21/92                     | 08:27 | 12.48              | 361.13          | 08/21/92                     | 08:21 | 12.55              | 359.71          | 08/21/92               | 08:42 | 8.55               | 345.51          |
|                                                                                   |                              | 12:12 | 12.46              | 361.15          |                              | 12:15 | 12.52              | 359.74          |                        | 15:18 | 8.64               | 345.42          |
|                                                                                   | 08/22/92                     | 17:57 | 12.57              | 361.04          | 08/22/92                     | 17:59 | 12.75              | 359.51          | 08/22/92               | 17:24 | 8.94               | 345.12          |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level



|                                                                                        | MW-43S<br>MPE = 353.58 fmsl |       |                          |                         | MW-43D<br>MPE = 353.50 fmsl |       |                          |                         | MW-44S<br>MPE = 353.06 fmsl |       |                          |                         |
|----------------------------------------------------------------------------------------|-----------------------------|-------|--------------------------|-------------------------|-----------------------------|-------|--------------------------|-------------------------|-----------------------------|-------|--------------------------|-------------------------|
| notes                                                                                  | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                    |       |                          |                         | 08/03/92                    |       |                          |                         | 08/03/92                    |       |                          |                         |
|                                                                                        |                             | 08:14 | 12.16                    | 341.42                  |                             | 08:15 | 11.98                    | 341.52                  |                             | 08:16 | 10.72                    | 342.34                  |
|                                                                                        |                             | 12:19 | 12.13                    | 341.45                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             |       |                          |                         |                             | 12:18 | 11.96                    | 341.54                  |                             | 12:24 | 10.66                    | 342.40                  |
|                                                                                        |                             | 16:23 | 12.11                    | 341.47                  |                             | 16:22 | 11.93                    | 341.57                  |                             | 16:28 | 10.63                    | 342.43                  |
|                                                                                        |                             | 18:43 | 12.11                    | 341.47                  |                             | 18:44 | 11.92                    | 341.58                  |                             | 18:51 | 10.63                    | 342.43                  |
|                                                                                        | 08/04/92                    | 07:19 | 11.93                    | 341.65                  | 08/04/92                    | 07:20 | 11.71                    | 341.79                  | 08/04/92                    | 06:48 | 10.31                    | 342.75                  |
|                                                                                        |                             | 13:07 | 11.83                    | 341.75                  |                             | 13:07 | 11.61                    | 341.89                  |                             | 13:13 | 10.20                    | 342.86                  |
|                                                                                        |                             | 19:50 | 11.71                    | 341.87                  |                             | 19:51 | 11.49                    | 342.01                  |                             | 19:42 | 10.05                    | 343.01                  |
|                                                                                        | 08/05/92                    | 07:32 | 11.56                    | 342.02                  | 08/05/92                    | 07:34 | 11.36                    | 342.14                  | 08/05/92                    | 07:21 | 9.94                     | 343.12                  |
|                                                                                        |                             | 12:51 | 11.50                    | 342.08                  |                             | 12:52 | 11.35                    | 342.15                  |                             | 12:25 | 9.90                     | 343.16                  |
|                                                                                        |                             | 19:12 | 11.47                    | 342.11                  |                             | 19:11 | 11.29                    | 342.21                  |                             | 19:08 | 10.22                    | 342.84                  |
|                                                                                        |                             |       |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             |       |                          |                         |                             |       |                          |                         |                             |       |                          |                         |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                    | 08:01 | 11.42                    | 342.16                  | 08/06/92                    | 08:02 | 11.24                    | 342.26                  | 08/06/92                    | 08:56 | 9.84                     | 343.22                  |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                    |       |                          |                         | 08/07/92                    |       |                          |                         | 08/07/92                    |       |                          |                         |
|                                                                                        |                             | 11:45 | 7.17                     | 346.41                  |                             |       |                          |                         |                             | 11:47 | 5.47                     | 347.59                  |
|                                                                                        |                             | 14:41 | 7.29                     | 346.29                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 15:18 | 7.22                     | 346.36                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        | 08/08/92                    |       |                          |                         | 08/08/92                    | 11:45 | 6.20                     | 347.30                  | 08/08/92                    | 15:16 | 5.59                     | 347.47                  |
|                                                                                        |                             |       |                          |                         |                             | 14:41 | 6.38                     | 347.12                  | 08/08/92                    | 11:00 | 4.52                     | 348.54                  |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/09/92                    |       |                          |                         | 08/09/92                    | 15:18 | 6.38                     | 347.12                  | 08/09/92                    |       |                          |                         |
|                                                                                        | 08/10/92                    |       |                          |                         | 08/10/92                    |       |                          |                         | 08/10/92                    |       |                          |                         |
|                                                                                        |                             |       |                          |                         |                             |       |                          |                         |                             | 17:30 | 4.74                     | 348.32                  |



|                                                                                   | MW-43S<br>MPE = 353.58 famsl |       |                          |                         | MW-43D<br>MPE = 353.50 famsl |       |                          |                         | MW-44S<br>MPE = 353.06 famsl |       |                          |                         |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|
| notes                                                                             | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
|                                                                                   | 08/11/92                     |       |                          |                         | 08/11/92                     |       |                          |                         | 08/11/92                     |       |                          |                         |
|                                                                                   | 08/12/92                     |       |                          |                         | 08/12/92                     |       |                          |                         | 08/12/92                     | 17:00 | 4.78                     | 348.28                  |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     |       |                          |                         | 08/13/92                     |       |                          |                         | 08/13/92                     |       |                          |                         |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     |       |                          |                         | 08/14/92                     |       |                          |                         | 08/14/92                     |       |                          |                         |
|                                                                                   | 08/15/92                     |       |                          |                         | 08/15/92                     |       |                          |                         | 08/15/92                     | 08:10 | 7.58                     | 345.48                  |
|                                                                                   | 08/16/92                     |       |                          |                         | 08/16/92                     |       |                          |                         | 08/16/92                     | 10:15 | 7.91                     | 345.15                  |
|                                                                                   | 08/17/92                     |       |                          |                         | 08/17/92                     |       |                          |                         | 08/17/92                     | 17:40 | 7.92                     | 345.14                  |
|                                                                                   | 08/18/92                     |       |                          |                         | 08/18/92                     |       |                          |                         | 08/18/92                     |       |                          |                         |
|                                                                                   |                              | 11:32 | 9.68                     | 343.90                  |                              | 11:33 | 9.68                     | 343.82                  |                              | 11:47 | 8.25                     | 344.81                  |
|                                                                                   |                              | 19:19 | 9.75                     | 343.83                  |                              | 19:19 | 9.75                     | 343.75                  |                              | 19:28 | 8.33                     | 344.73                  |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     | 08:01 | 9.87                     | 343.71                  | 08/19/92                     | 08:02 | 9.84                     | 343.66                  | 08/19/92                     | 08:11 | 8.44                     | 344.62                  |
|                                                                                   |                              | 12:08 | 9.91                     | 343.67                  |                              | 12:09 | 9.92                     | 343.58                  |                              | 12:12 | 8.51                     | 344.55                  |
|                                                                                   |                              | 14:35 | 9.96                     | 343.62                  |                              | 14:36 | 9.98                     | 343.52                  |                              | 16:40 | 8.62                     | 344.44                  |
|                                                                                   |                              | 19:22 | 10.03                    | 343.55                  |                              | 19:22 | 10.04                    | 343.46                  |                              | 18:54 | 8.67                     | 344.39                  |
|                                                                                   | 08/20/92                     | 09:02 | 10.21                    | 343.37                  | 08/20/92                     | 09:02 | 10.23                    | 343.27                  | 08/20/92                     | 09:07 | 8.90                     | 344.16                  |
|                                                                                   |                              | 14:17 | 10.29                    | 343.29                  |                              | 14:17 | 10.38                    | 343.12                  |                              | 14:26 | 9.02                     | 344.04                  |
|                                                                                   |                              | 19:57 | 10.34                    | 343.24                  |                              | 19:57 | 10.36                    | 343.14                  |                              | 19:51 | 9.05                     | 344.01                  |
|                                                                                   | 08/21/92                     | 08:51 | 10.52                    | 343.06                  | 08/21/92                     | 08:52 | 10.50                    | 343.00                  | 08/21/92                     | 08:46 | 9.19                     | 343.87                  |
|                                                                                   |                              | 15:06 | 10.57                    | 343.01                  |                              | 15:07 | 10.57                    | 342.93                  |                              | 15:08 | 9.27                     | 343.79                  |
|                                                                                   | 08/22/92                     | 17:37 | 10.78                    | 342.80                  | 08/22/92                     | 17:38 | 10.83                    | 342.67                  | 08/22/92                     | 17:18 | 9.61                     | 343.45                  |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

|                                                                                        | MW-45S<br>MPE = 354.50 fmsl |                                                                     |                          |                         | MW-45D<br>MPE = 354.04 fmsl |       |                          |                         | MW-46S<br>MPE = 354.12 fmsl |          |                          |                         |          |       |      |        |
|----------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------|--------------------------|-------------------------|-----------------------------|-------|--------------------------|-------------------------|-----------------------------|----------|--------------------------|-------------------------|----------|-------|------|--------|
| notes                                                                                  | date                        | time                                                                | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time     | water<br>level<br>(fbmp) | water<br>ele-<br>vation |          |       |      |        |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                    | 08:11                                                               | 12.23                    | 342.27                  | 08/03/92                    | 08:11 | 11.70                    | 342.34                  | 08/03/92                    | 08:00    |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 08:18    | 7.14                     | 346.98                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 08:39    | 7.11                     | 347.01                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 08:59    | 7.09                     | 347.03                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 09:23    | 7.08                     | 347.04                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 09:40    | 7.05                     | 347.07                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 10:00    | 7.04                     | 347.08                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 11:19    | 6.98                     | 347.14                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 12:14    | 6.94                     | 347.18                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 13:01    | 6.93                     | 347.19                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 14:39    | 6.85                     | 347.27                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 16:17    | 6.79                     | 347.33                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 18:48    | 6.70                     | 347.42                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 08/04/92 | 06:51                    | 6.21                    | 347.91   |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 13:15    | 6.04                     | 348.08                  |          |       |      |        |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                    | 07:47                                                               | 11.64                    | 342.86                  | 08/06/92                    | 07:48 | 11.10                    | 342.94                  | 08/06/92                    | 07:34    | 5.70                     | 348.42                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 08:27    | 5.70                     | 348.42                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 08:35    |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 08:50    | 5.68                     | 348.44                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 09:09    | 5.67                     | 348.45                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 09:29    | 5.66                     | 348.46                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 09:56    | 5.63                     | 348.49                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 10:40    | 5.60                     | 348.52                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 11:39    | 5.54                     | 348.58                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 12:29    | 5.49                     | 348.63                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 13:30    | 5.44                     | 348.68                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 14:00    | 5.41                     | 348.71                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 15:03    | 5.35                     | 348.77                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 15:40    | 5.33                     | 348.79                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 16:22    | 5.28                     | 348.84                  |          |       |      |        |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                    | 11:58                                                               | 8.24                     | 346.26                  | 08/07/92                    | 11:58 | 7.57                     | 346.47                  | 08/07/92                    | 07:30    | 4.64                     | 349.48                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 11:50    | 4.47                     | 349.65                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 12:00    | 4.48                     | 349.64                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 12:42    | 4.46                     | 349.66                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 12:56    | 4.47                     | 349.65                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 13:10    |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 13:38    | 4.47                     | 349.65                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 15:13    | 4.43                     | 349.69                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 08/08/92 | 11:30                    | 3.89                    | 350.23   |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 17:19    | 3.74                     | 350.38                  |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             | 08/09/92 | 13:17                    | 3.32                    | 350.80   |       |      |        |
|                                                                                        |                             | 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off | 08/10/92                 |                         |                             |       |                          | 08/10/92                |                             |          |                          |                         | 08/10/92 | 08:50 |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          | 09:10 | 3.05 | 351.07 |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          | 09:24 | 3.06 | 351.06 |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          | 09:46 | 3.10 | 351.02 |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         | 10:03                       | 3.10     | 351.02                   |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         | 10:24                       | 3.14     | 350.98                   |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         | 12:03                       | 3.20     | 350.92                   |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         | 13:00                       |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         | 13:47                       | 3.26     | 350.86                   |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         | 15:24                       | 3.28     | 350.84                   |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         | 17:00                       | 3.32     | 350.80                   |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |
|                                                                                        |                             |                                                                     |                          |                         |                             |       |                          |                         |                             |          |                          |                         |          |       |      |        |

|                                                                                   | MW-45S<br>MPE = 354.50 famsl |       |                          |                         | MW-45D<br>MPE = 354.04 famsl |       |                          |                         | MW-46S<br>MPE = 354.12 famsl |       |                          |                         |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|
| notes                                                                             | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
|                                                                                   | 08/11/92                     |       |                          |                         | 08/11/92                     |       |                          |                         | 08/11/92                     | 06:00 |                          |                         |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 07:10 | 3.19                     | 350.93                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 13:04 | 3.21                     | 350.91                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 14:50 |                          |                         |
|                                                                                   |                              | 17:00 | 6.49                     | 348.01                  |                              | 17:00 | 5.98                     | 348.06                  |                              | 16:52 | 3.30                     | 350.82                  |
|                                                                                   | 08/12/92                     |       |                          |                         | 08/12/92                     |       |                          |                         | 08/12/92                     | 05:50 |                          |                         |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 07:10 | 3.39                     | 350.73                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 12:54 | 3.39                     | 350.73                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 17:00 |                          |                         |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 19:00 | 3.38                     | 350.74                  |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     |       |                          |                         | 08/13/92                     |       |                          |                         | 08/13/92                     | 07:30 |                          |                         |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 08:02 | 3.40                     | 350.72                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 08:23 | 3.41                     | 350.71                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 08:45 | 3.42                     | 350.70                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 09:05 | 3.44                     | 350.68                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 09:26 | 3.45                     | 350.67                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 09:40 |                          |                         |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 11:15 | 3.52                     | 350.60                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 12:48 | 3.58                     | 350.54                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 14:22 | 3.60                     | 350.52                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 16:14 | 3.63                     | 350.49                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 19:11 | 3.67                     | 350.45                  |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     |       |                          |                         | 08/14/92                     |       |                          |                         | 08/14/92                     | 07:22 | 3.85                     | 350.27                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 13:53 | 3.95                     | 350.17                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 18:31 | 4.01                     | 350.11                  |
|                                                                                   | 08/15/92                     | 08:10 | 9.01                     | 345.49                  | 08/15/92                     | 08:10 | 8.52                     | 345.52                  | 08/15/92                     | 07:37 | 4.15                     | 349.97                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 15:14 | 4.24                     | 349.88                  |
|                                                                                   | 08/16/92                     | 10:15 | 9.41                     | 345.09                  | 08/16/92                     | 10:15 | 8.92                     | 345.12                  | 08/16/92                     | 10:34 | 4.34                     | 349.78                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 17:14 | 4.38                     | 349.74                  |
|                                                                                   | 08/17/92                     |       |                          |                         | 08/17/92                     |       |                          |                         | 08/17/92                     | 09:59 | 4.46                     | 349.66                  |
|                                                                                   |                              | 17:40 | 9.67                     | 344.83                  |                              | 17:40 | 9.16                     | 344.88                  |                              | 17:25 | 4.45                     | 349.67                  |
|                                                                                   | 08/18/92                     |       |                          |                         | 08/18/92                     |       |                          |                         | 08/18/92                     | 08:16 | 4.49                     | 349.63                  |
|                                                                                   |                              | 11:59 | 9.82                     | 344.68                  |                              | 12:00 | 9.33                     | 344.71                  |                              | 11:44 | 4.50                     | 349.62                  |
|                                                                                   |                              | 19:42 | 9.90                     | 344.60                  |                              | 19:42 | 9.39                     | 344.65                  |                              | 19:25 | 4.53                     | 349.59                  |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     | 08:12 | 10.02                    | 344.48                  | 08/19/92                     | 08:12 | 9.53                     | 344.51                  | 08/19/92                     | 08:00 | 4.64                     | 349.48                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 08:20 | 4.67                     | 349.45                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 08:40 | 4.70                     | 349.42                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 09:00 | 4.73                     | 349.39                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 09:20 | 4.76                     | 349.36                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 09:40 | 4.79                     | 349.33                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 11:20 | 4.90                     | 349.22                  |
|                                                                                   |                              | 12:14 | 10.06                    | 344.44                  |                              | 12:14 | 9.56                     | 344.48                  |                              | 13:00 | 5.00                     | 349.12                  |
|                                                                                   |                              |       |                          |                         |                              |       |                          |                         |                              | 14:40 | 5.07                     | 349.05                  |
|                                                                                   |                              | 16:42 | 10.11                    | 344.39                  |                              | 16:43 | 9.60                     | 344.44                  |                              | 16:20 | 5.14                     | 348.98                  |
|                                                                                   |                              | 19:13 | 10.14                    | 344.36                  |                              | 19:12 | 9.64                     | 344.40                  |                              | 20:00 | 5.26                     | 348.86                  |
|                                                                                   | 08/20/92                     | 09:22 | 10.31                    | 344.19                  | 08/20/92                     | 09:22 | 9.81                     | 344.23                  | 08/20/92                     | 08:00 | 5.53                     | 348.59                  |
|                                                                                   |                              | 14:41 | 10.37                    | 344.13                  |                              | 14:42 | 9.86                     | 344.18                  |                              | 14:00 | 5.64                     | 348.48                  |
|                                                                                   |                              | 19:32 | 10.41                    | 344.09                  |                              | 19:33 | 9.91                     | 344.13                  |                              | 19:00 | 5.70                     | 348.42                  |
|                                                                                   | 08/21/92                     | 08:58 | 10.58                    | 343.92                  | 08/21/92                     | 08:59 | 10.07                    | 343.97                  | 08/21/92                     | 07:30 | 5.84                     | 348.28                  |
|                                                                                   |                              | 15:21 | 10.62                    | 343.88                  |                              | 15:21 | 10.11                    | 343.93                  |                              | 15:11 | 5.91                     | 348.21                  |
|                                                                                   | 08/22/92                     | 17:32 | 10.88                    | 343.62                  | 08/22/92                     | 17:33 | 10.39                    | 343.65                  | 08/22/92                     | 17:14 | 6.13                     | 347.99                  |

F:\PROJ\1028151\P-TST\DATA3.WK1

NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

|                                                                                        | MW-46D<br>MPE = 354.24 fmsl |       |                    |                 | MW-49S<br>MPE = 378.93 fmsl |       |                    |                 | MW-49I<br>MPE = 379.16 fmsl |       |                    |                 |
|----------------------------------------------------------------------------------------|-----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|
| notes                                                                                  | date                        | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                    | 08:00 |                    |                 | 08/03/92                    | 08:02 | 29.52              | 349.41          | 08/03/92                    | 08:03 | 29.50              | 349.66          |
|                                                                                        |                             | 08:18 | 7.49               | 346.75          |                             | 08:23 | 29.53              | 349.40          |                             | 08:24 | 29.50              | 349.66          |
|                                                                                        |                             | 08:40 | 7.47               | 346.77          |                             | 08:42 | 29.52              | 349.41          |                             | 08:43 | 29.48              | 349.68          |
|                                                                                        |                             | 09:00 | 7.46               | 346.78          |                             | 08:59 | 29.51              | 349.42          |                             | 09:00 | 29.48              | 349.68          |
|                                                                                        |                             | 09:22 | 7.43               | 346.81          |                             | 09:20 | 29.50              | 349.43          |                             | 09:21 | 29.48              | 349.68          |
|                                                                                        |                             | 09:40 | 7.41               | 346.83          |                             | 09:41 | 29.51              | 349.42          |                             | 09:42 | 29.48              | 349.68          |
|                                                                                        |                             | 10:00 | 7.39               | 346.85          |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 11:19 | 7.34               | 346.90          |                             | 11:29 | 29.49              | 349.44          |                             | 11:30 | 29.44              | 349.72          |
|                                                                                        |                             | 12:14 | 7.30               | 346.94          |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 13:01 | 7.27               | 346.97          |                             | 13:07 | 29.47              | 349.46          |                             | 13:08 | 29.42              | 349.74          |
|                                                                                        | 08/04/92                    | 14:40 | 7.21               | 347.03          |                             | 14:50 | 29.46              | 349.47          |                             | 14:50 | 29.40              | 349.76          |
|                                                                                        |                             | 16:18 | 7.14               | 347.10          |                             | 16:30 | 29.48              | 349.45          |                             | 16:31 | 29.39              | 349.77          |
|                                                                                        |                             | 18:48 | 7.08               | 347.16          |                             | 18:18 | 29.44              | 349.49          |                             | 18:18 | 29.35              | 349.81          |
|                                                                                        |                             | 06:52 | 6.63               | 347.61          | 08/04/92                    | 07:55 | 29.28              | 349.65          |                             | 07:56 | 29.13              | 350.03          |
|                                                                                        | 08/05/92                    | 13:15 | 6.44               | 347.80          |                             | 12:47 | 29.23              | 349.70          |                             | 12:46 | 29.06              | 350.10          |
|                                                                                        |                             | 19:45 | 6.30               | 347.94          |                             | 19:26 | 29.16              | 349.77          |                             | 19:27 | 28.98              | 350.18          |
|                                                                                        |                             | 07:24 | 6.18               | 348.06          |                             | 06:46 | 29.05              | 349.88          |                             | 06:47 | 28.87              | 350.29          |
|                                                                                        |                             | 12:20 | 6.13               | 348.11          |                             | 12:54 | 28.98              | 349.95          |                             | 12:55 | 28.80              | 350.36          |
|                                                                                        |                             | 19:04 | 6.10               | 348.14          |                             | 19:20 | 28.96              | 349.97          |                             | 19:21 | 28.78              | 350.38          |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                    | 07:34 | 6.08               | 348.16          | 08/06/92                    | 07:04 | 28.87              | 350.06          | 08/06/92                    | 07:04 | 28.73              | 350.43          |
|                                                                                        |                             | 08:27 | 6.08               | 348.16          |                             | 08:19 | 28.85              | 350.08          |                             | 08:20 | 28.70              | 350.46          |
|                                                                                        |                             | 08:35 |                    |                 |                             | 08:32 | 28.85              | 350.08          |                             | 08:33 | 28.70              | 350.46          |
|                                                                                        |                             | 08:50 | 6.06               | 348.18          |                             | 08:55 | 28.84              | 350.09          |                             | 08:56 | 28.70              | 350.46          |
|                                                                                        |                             | 09:10 | 6.04               | 348.20          |                             | 09:16 | 28.85              | 350.08          |                             | 09:17 | 28.70              | 350.46          |
|                                                                                        |                             | 09:30 | 6.02               | 348.22          |                             | 09:37 | 28.85              | 350.08          |                             | 09:37 | 28.70              | 350.46          |
|                                                                                        |                             | 09:56 | 5.99               | 348.25          |                             | 09:55 | 28.85              | 350.08          |                             | 09:56 | 28.69              | 350.47          |
|                                                                                        |                             | 10:40 | 5.95               | 348.29          |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 11:39 | 5.88               | 348.36          |                             | 11:44 | 28.86              | 350.07          |                             | 11:45 | 28.69              | 350.47          |
|                                                                                        |                             | 12:31 | 5.84               | 348.40          |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        | 08/07/92                    | 13:30 | 5.78               | 348.46          |                             | 13:18 | 28.86              | 350.07          |                             | 13:19 | 28.69              | 350.47          |
|                                                                                        |                             | 14:00 | 5.75               | 348.49          |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 15:03 | 5.68               | 348.56          |                             | 15:04 | 28.83              | 350.10          |                             | 15:05 | 28.66              | 350.50          |
|                                                                                        |                             | 15:40 | 5.65               | 348.59          |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 16:22 | 5.60               | 348.64          |                             | 16:44 | 28.83              | 350.10          |                             | 16:44 | 28.62              | 350.54          |
|                                                                                        |                             | 17:01 | 5.58               | 348.66          |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 18:20 |                    |                 |                             | 18:39 | 28.76              | 350.17          |                             | 18:40 | 28.58              | 350.58          |
|                                                                                        |                             | 19:10 | 5.44               | 348.80          |                             |       |                    |                 |                             |       |                    |                 |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                    | 07:31 | 4.90               | 349.34          | 08/07/92                    | 07:54 | 28.62              | 350.31          | 08/07/92                    | 07:55 | 28.40              | 350.76          |
|                                                                                        |                             | 11:49 | 4.74               | 349.50          |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 12:01 | 4.73               | 349.51          |                             | 12:03 | 28.55              | 350.38          |                             | 12:04 | 28.31              | 350.85          |
|                                                                                        |                             | 12:42 | 4.71               | 349.53          |                             | 12:35 | 28.52              | 350.41          |                             | 12:36 | 28.30              | 350.86          |
|                                                                                        |                             | 12:56 | 4.72               | 349.52          |                             | 12:57 | 28.53              | 350.40          |                             | 12:58 | 28.30              | 350.86          |
|                                                                                        |                             | 13:10 |                    |                 |                             | 13:15 | 28.54              | 350.39          |                             | 13:16 | 28.30              | 350.86          |
|                                                                                        |                             | 13:38 | 4.74               | 349.50          |                             | 13:34 | 28.52              | 350.41          |                             | 13:35 | 28.27              | 350.89          |
|                                                                                        |                             | 15:14 | 4.69               | 349.55          |                             | 16:40 | 28.50              | 350.43          |                             | 16:39 | 27.98              | 351.18          |
|                                                                                        | 08/08/92                    | 11:30 | 4.11               | 350.13          |                             | 11:18 | 28.21              | 350.72          |                             | 11:18 | 27.88              | 351.28          |
|                                                                                        |                             | 17:20 | 3.96               | 350.28          |                             | 17:56 | 28.12              | 350.81          |                             | 17:57 | 27.60              | 351.56          |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/09/92                    | 13:18 | 3.52               | 350.72          | 08/09/92                    | 12:59 | 27.82              | 351.11          | 08/09/92                    | 13:00 | 27.39              | 351.77          |
|                                                                                        | 08/10/92                    | 08:50 |                    |                 | 08/10/92                    | 08:52 | 27.57              | 351.36          | 08/10/92                    | 08:53 | 27.36              | 351.80          |
|                                                                                        |                             | 09:11 | 3.25               | 350.99          |                             | 09:08 | 27.56              | 351.37          |                             | 09:09 | 27.36              | 351.80          |
|                                                                                        |                             | 09:25 | 3.27               | 350.97          |                             | 09:31 | 27.56              | 351.37          |                             | 09:33 | 27.36              | 351.80          |
|                                                                                        |                             | 09:47 | 3.32               | 350.92          |                             | 09:50 | 27.56              | 351.37          |                             | 09:51 | 27.36              | 351.80          |
|                                                                                        |                             | 10:04 | 3.34               | 350.90          |                             | 10:09 | 27.54              | 351.39          |                             | 10:10 | 27.36              | 351.80          |
|                                                                                        |                             | 10:25 | 3.34               | 350.90          |                             | 10:30 | 27.54              | 351.39          |                             | 10:31 | 27.34              | 351.82          |
|                                                                                        |                             | 12:04 | 3.42               | 350.82          |                             | 12:25 | 27.48              | 351.45          |                             | 12:24 | 27.31              | 351.85          |
|                                                                                        |                             | 13:00 |                    |                 |                             |       |                    |                 |                             |       |                    |                 |
|                                                                                        |                             | 13:48 | 3.49               | 350.75          |                             | 14:03 | 27.47              | 351.46          |                             | 14:04 | 27.30              | 351.86          |
|                                                                                        |                             | 15:25 | 3.53               | 350.71          |                             | 15:45 | 27.45              | 351.48          |                             | 15:47 | 27.29              | 351.87          |
|                                                                                        |                             | 17:01 | 3.56               | 350.68          |                             | 17:23 | 27.43              | 351.50          |                             | 17:24 | 27.29              | 351.87          |

|                                                                                   | MW-46D<br>MPE = 354.24 famsl |       |                          |                         | MW-49S<br>MPE = 378.93 famsl |       |                          |                         | MW-49I<br>MPE = 379.16 famsl |       |                          |                         |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|
| notes                                                                             | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
|                                                                                   | 08/11/92                     | 06:00 |                          |                         | 08/11/92                     | 06:40 | 27.36                    | 351.57                  | 08/11/92                     | 06:41 | 27.36                    | 351.80                  |
|                                                                                   |                              | 07:11 | 3.43                     | 350.81                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 13:05 | 3.46                     | 350.78                  |                              | 12:53 | 27.26                    | 351.67                  |                              | 12:54 | 27.25                    | 351.91                  |
|                                                                                   |                              | 14:50 |                          |                         |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   | 08/12/92                     | 16:53 | 3.55                     | 350.69                  | 08/12/92                     | 17:18 | 27.28                    | 351.65                  | 08/12/92                     | 17:17 | 27.15                    | 352.01                  |
|                                                                                   |                              | 05:50 |                          |                         |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 07:11 | 3.66                     | 350.58                  |                              | 06:37 | 27.20                    | 351.73                  |                              | 06:38 | 27.19                    | 351.97                  |
|                                                                                   |                              | 12:54 | 3.64                     | 350.60                  |                              | 13:52 | 27.16                    | 351.77                  |                              | 13:53 | 27.13                    | 352.03                  |
|                                                                                   |                              | 17:00 |                          |                         |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 19:01 | 3.63                     | 350.61                  |                              | 18:41 | 27.11                    | 351.82                  |                              | 18:42 | 27.11                    | 352.05                  |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     | 07:30 |                          |                         | 08/13/92                     | 07:35 | 27.08                    | 351.85                  | 08/13/92                     | 07:36 | 27.06                    | 352.10                  |
|                                                                                   |                              | 08:03 | 3.65                     | 350.59                  |                              | 08:08 | 27.08                    | 351.85                  |                              | 08:09 | 27.04                    | 352.12                  |
|                                                                                   |                              | 08:24 | 3.65                     | 350.59                  |                              | 08:27 | 27.08                    | 351.85                  |                              | 08:28 | 27.03                    | 352.13                  |
|                                                                                   |                              | 08:46 | 3.67                     | 350.57                  |                              | 08:47 | 27.08                    | 351.85                  |                              | 08:48 | 27.03                    | 352.13                  |
|                                                                                   |                              | 09:06 | 3.70                     | 350.54                  |                              | 09:07 | 27.07                    | 351.86                  |                              | 09:08 | 27.04                    | 352.12                  |
|                                                                                   |                              | 09:27 | 3.70                     | 350.54                  |                              | 09:28 | 27.07                    | 351.86                  |                              | 09:29 | 27.04                    | 352.12                  |
|                                                                                   |                              | 09:40 |                          |                         |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 11:14 | 3.79                     | 350.45                  |                              | 11:06 | 27.07                    | 351.86                  |                              | 11:07 | 27.04                    | 352.12                  |
|                                                                                   |                              | 12:49 | 3.85                     | 350.39                  |                              | 12:50 | 27.07                    | 351.86                  |                              | 12:51 | 27.04                    | 352.12                  |
|                                                                                   |                              | 14:23 | 3.88                     | 350.36                  |                              | 14:23 | 27.07                    | 351.86                  |                              | 14:24 | 27.05                    | 352.11                  |
|                                                                                   |                              | 16:15 | 3.92                     | 350.32                  |                              | 16:02 | 27.04                    | 351.89                  |                              | 16:03 | 27.04                    | 352.12                  |
|                                                                                   |                              | 19:12 | 3.97                     | 350.27                  |                              | 18:48 | 27.05                    | 351.88                  |                              | 18:50 | 27.04                    | 352.12                  |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     | 07:23 | 4.15                     | 350.09                  | 08/14/92                     | 06:51 | 27.04                    | 351.89                  | 08/14/92                     | 06:52 | 27.09                    | 352.07                  |
|                                                                                   |                              | 13:54 | 4.26                     | 349.98                  |                              | 13:42 | 27.07                    | 351.86                  |                              | 13:41 | 27.09                    | 352.07                  |
|                                                                                   |                              | 18:32 | 4.33                     | 349.91                  |                              | 18:23 | 27.11                    | 351.82                  |                              | 18:24 | 27.13                    | 352.03                  |
|                                                                                   | 08/15/92                     | 07:37 | 4.46                     | 349.78                  | 08/15/92                     | 08:22 | 27.16                    | 351.77                  | 08/15/92                     | 08:23 | 27.19                    | 351.97                  |
|                                                                                   |                              | 15:15 | 4.56                     | 349.68                  |                              | 15:56 | 27.22                    | 351.71                  |                              | 15:57 | 27.24                    | 351.92                  |
|                                                                                   | 08/16/92                     | 10:35 | 4.67                     | 349.57                  | 08/16/92                     | 09:53 | 27.26                    | 351.67                  | 08/16/92                     | 09:53 | 27.28                    | 351.88                  |
|                                                                                   |                              | 17:14 | 4.71                     | 349.53                  |                              | 17:54 | 27.31                    | 351.62                  |                              | 17:54 | 27.33                    | 351.83                  |
|                                                                                   | 08/17/92                     | 09:59 | 4.81                     | 349.43                  | 08/17/92                     | 09:28 | 27.35                    | 351.58                  | 08/17/92                     | 09:29 | 27.39                    | 351.77                  |
|                                                                                   |                              | 17:26 | 4.78                     | 349.46                  |                              | 17:38 | 27.40                    | 351.53                  |                              | 17:39 | 27.41                    | 351.75                  |
|                                                                                   | 08/18/92                     | 08:16 | 4.83                     | 349.41                  | 08/18/92                     | 08:53 | 27.43                    | 351.50                  | 08/18/92                     | 08:53 | 27.44                    | 351.72                  |
|                                                                                   |                              | 11:45 | 4.85                     | 349.39                  |                              | 14:45 | 27.43                    | 351.50                  |                              | 14:45 | 27.45                    | 351.71                  |
|                                                                                   |                              | 19:26 | 4.87                     | 349.37                  |                              | 19:03 | 27.45                    | 351.48                  |                              | 19:04 | 27.46                    | 351.70                  |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     | 08:00 | 4.97                     | 349.27                  | 08/19/92                     |       |                          |                         | 08/19/92                     |       |                          |                         |
|                                                                                   |                              | 08:20 | 5.01                     | 349.23                  |                              | 08:27 | 27.47                    | 351.46                  |                              | 08:28 | 27.49                    | 351.67                  |
|                                                                                   |                              | 08:40 | 5.05                     | 349.19                  |                              | 08:44 | 27.47                    | 351.46                  |                              | 08:45 | 27.52                    | 351.64                  |
|                                                                                   |                              | 09:00 | 5.08                     | 349.16                  |                              | 09:03 | 27.47                    | 351.46                  |                              | 09:04 | 27.50                    | 351.66                  |
|                                                                                   |                              | 09:20 | 5.11                     | 349.13                  |                              | 09:23 | 27.48                    | 351.45                  |                              | 09:24 | 27.53                    | 351.63                  |
|                                                                                   |                              | 09:40 | 5.14                     | 349.10                  |                              | 09:44 | 27.47                    | 351.46                  |                              | 09:45 | 27.51                    | 351.65                  |
|                                                                                   |                              | 11:20 | 5.25                     | 348.99                  |                              | 11:24 | 27.51                    | 351.42                  |                              | 11:25 | 27.56                    | 351.60                  |
|                                                                                   |                              | 13:00 | 5.34                     | 348.90                  |                              | 13:06 | 27.53                    | 351.40                  |                              | 13:07 | 27.59                    | 351.57                  |
|                                                                                   |                              | 14:40 | 5.42                     | 348.82                  |                              | 14:48 | 27.55                    | 351.38                  |                              | 14:49 | 27.62                    | 351.54                  |
|                                                                                   |                              | 16:20 | 5.48                     | 348.76                  |                              | 16:25 | 27.57                    | 351.36                  |                              | 16:26 | 27.64                    | 351.52                  |
|                                                                                   | 08/20/92                     | 20:00 | 5.61                     | 348.63                  |                              | 20:26 | 27.61                    | 351.32                  |                              | 20:27 | 27.71                    | 351.45                  |
|                                                                                   |                              | 08:00 | 5.88                     | 348.36                  |                              | 08:49 | 27.74                    | 351.19                  |                              | 08:50 | 27.87                    | 351.29                  |
|                                                                                   |                              | 14:00 | 5.98                     | 348.26                  |                              | 14:03 | 27.79                    | 351.14                  |                              | 14:04 | 27.93                    | 351.23                  |
|                                                                                   | 08/21/92                     | 19:00 | 6.05                     | 348.19                  | 08/21/92                     | 19:14 | 27.83                    | 351.10                  | 08/21/92                     | 19:14 | 27.96                    | 351.20                  |
|                                                                                   |                              | 07:30 | 6.18                     | 348.06                  |                              | 07:50 | 27.96                    | 350.97                  |                              | 07:51 | 28.10                    | 351.06                  |
|                                                                                   | 08/22/92                     | 15:11 | 6.26                     | 347.98                  | 08/22/92                     | 14:25 | 27.99                    | 350.94                  | 08/22/92                     | 14:25 | 28.13                    | 351.03                  |
|                                                                                   |                              | 17:14 | 6.48                     | 347.76                  |                              | 17:05 | 28.26                    | 350.67                  |                              | 17:06 | 28.28                    | 350.88                  |

F:\PROJ\1028151\P-TST\DATA3.WK1

NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level



|                                                                                        | MW-49D<br>MPE = 379.04 fmsl |       |                    |                 | MW-50S<br>MPE = 362.82 fmsl |       |                    |                 | MW-50I<br>MPE = 362.57 fmsl |       |                    |                 |
|----------------------------------------------------------------------------------------|-----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|-----------------------------|-------|--------------------|-----------------|
| notes                                                                                  | date                        | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation | date                        | time  | water level (fbmp) | water elevation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                    | 08:04 | 29.10              | 349.94          | 08/03/92                    | 07:58 | 8.64               | 354.18          | 08/03/92                    | 07:59 | 12.20              | 350.37          |
|                                                                                        |                             | 08:25 | 29.10              | 349.94          |                             | 08:21 | 8.64               | 354.18          |                             | 08:22 | 12.18              | 350.39          |
|                                                                                        |                             | 08:44 | 29.10              | 349.94          |                             | 08:39 | 8.65               | 354.17          |                             | 08:40 | 12.18              | 350.39          |
|                                                                                        |                             | 09:01 | 29.10              | 349.94          |                             | 08:57 | 8.64               | 354.18          |                             | 08:58 | 12.20              | 350.37          |
|                                                                                        |                             | 09:22 | 29.10              | 349.94          |                             | 09:18 | 8.66               | 354.16          |                             | 09:19 | 12.18              | 350.39          |
|                                                                                        |                             | 09:43 | 29.08              | 349.96          |                             | 09:38 | 8.66               | 354.16          |                             | 09:39 | 12.17              | 350.40          |
|                                                                                        |                             | 11:31 | 29.05              | 349.99          |                             | 11:36 | 8.67               | 354.15          |                             | 11:37 | 12.12              | 350.45          |
|                                                                                        |                             | 13:09 | 29.02              | 350.02          |                             | 13:13 | 8.68               | 354.14          |                             | 13:15 | 12.09              | 350.48          |
|                                                                                        |                             | 14:50 | 29.00              | 350.04          |                             | 14:54 | 8.70               | 354.12          |                             | 14:54 | 12.06              | 350.51          |
|                                                                                        |                             | 16:32 | 29.00              | 350.04          |                             | 16:35 | 8.74               | 354.08          |                             | 16:36 | 12.03              | 350.54          |
|                                                                                        |                             | 18:19 | 28.96              | 350.08          |                             | 18:25 | 8.74               | 354.08          |                             | 18:25 | 11.99              | 350.58          |
|                                                                                        |                             | 07:57 | 28.75              | 350.29          | 08/04/92                    | 07:51 | 4.91               | 357.91          | 08/04/92                    | 07:52 | 11.66              | 350.91          |
|                                                                                        |                             | 12:45 | 28.71              | 350.33          |                             | 12:41 | 4.37               | 358.45          |                             | 12:41 | 11.54              | 351.03          |
|                                                                                        |                             | 19:27 | 28.60              | 350.44          |                             | 19:21 | 3.86               | 358.96          |                             | 19:22 | 11.43              | 351.14          |
|                                                                                        |                             | 06:48 | 28.49              | 350.55          | 08/05/92                    | 06:55 | 3.94               | 358.88          | 08/05/92                    | 06:56 | 11.32              | 351.25          |
|                                                                                        |                             | 12:56 | 28.43              | 350.61          |                             | 12:45 | 4.15               | 358.67          |                             | 12:46 | 11.28              | 351.29          |
|                                                                                        |                             | 19:22 | 28.40              | 350.64          |                             | 19:28 | 4.58               | 358.24          |                             | 19:29 | 11.25              | 351.32          |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                    | 07:05 | 28.36              | 350.68          | 08/06/92                    | 07:01 | 5.19               | 357.63          | 08/06/92                    | 07:02 | 11.20              | 351.37          |
|                                                                                        |                             | 08:20 | 28.33              | 350.71          |                             | 08:15 | 5.26               | 357.56          |                             | 08:16 | 11.21              | 351.36          |
|                                                                                        |                             | 08:34 | 28.33              | 350.71          |                             | 08:28 | 5.26               | 357.56          |                             | 08:29 | 11.20              | 351.37          |
|                                                                                        |                             | 08:57 | 28.33              | 350.71          |                             | 08:51 | 5.28               | 357.54          |                             | 08:52 | 11.20              | 351.37          |
|                                                                                        |                             | 09:17 | 28.33              | 350.71          |                             | 09:13 | 5.29               | 357.53          |                             | 09:14 | 11.19              | 351.38          |
|                                                                                        |                             | 09:38 | 28.30              | 350.74          |                             | 09:32 | 5.29               | 357.53          |                             | 09:33 | 11.20              | 351.37          |
|                                                                                        |                             | 09:51 | 28.33              | 350.71          |                             | 09:52 | 5.32               | 357.50          |                             | 09:53 | 11.19              | 351.38          |
|                                                                                        |                             | 11:46 | 28.33              | 350.71          |                             | 11:40 | 5.40               | 357.42          |                             | 11:41 | 11.18              | 351.39          |
|                                                                                        |                             | 13:20 | 28.33              | 350.71          |                             | 13:15 | 5.46               | 357.36          |                             | 13:16 | 11.18              | 351.39          |
|                                                                                        |                             | 15:06 | 28.30              | 350.74          |                             | 15:01 | 5.54               | 357.28          |                             | 15:02 | 11.16              | 351.41          |
|                                                                                        |                             | 16:45 | 28.30              | 350.74          |                             | 16:40 | 5.60               | 357.22          |                             | 16:41 | 11.12              | 351.45          |
|                                                                                        |                             | 18:41 | 28.22              | 350.82          |                             | 18:37 | 5.69               | 357.13          |                             | 18:38 | 11.10              | 351.47          |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                    | 07:55 | 28.05              | 350.99          | 08/07/92                    | 07:52 | 6.29               | 356.53          | 08/07/92                    | 07:52 | 10.98              | 351.59          |
|                                                                                        |                             | 12:05 | 27.97              | 351.07          |                             | 12:01 | 6.44               | 356.38          |                             | 12:01 | 10.90              | 351.67          |
|                                                                                        |                             | 12:37 | 27.95              | 351.09          |                             | 12:32 | 6.44               | 356.38          |                             | 12:33 | 10.89              | 351.68          |
|                                                                                        |                             | 12:59 | 27.95              | 351.09          |                             | 12:54 | 6.45               | 356.37          |                             | 12:55 | 10.89              | 351.68          |
|                                                                                        |                             | 13:17 | 27.95              | 351.09          |                             | 13:12 | 6.46               | 356.36          |                             | 13:13 | 10.88              | 351.69          |
|                                                                                        |                             | 13:35 | 27.95              | 351.09          |                             | 13:33 | 6.47               | 356.35          |                             | 13:33 | 10.88              | 351.69          |
|                                                                                        |                             | 16:38 | 27.92              | 351.12          |                             | 16:34 | 6.59               | 356.23          |                             | 16:34 | 10.85              | 351.72          |
|                                                                                        | 08/08/92                    | 11:19 | 27.65              | 351.39          | 08/08/92                    | 11:14 | 7.13               | 355.69          | 08/08/92                    | 11:15 | 10.63              | 351.94          |
|                                                                                        |                             | 17:58 | 27.55              | 351.49          |                             | 17:53 | 7.24               | 355.58          |                             | 17:53 | 10.56              | 352.01          |
|                                                                                        | 08/09/92                    | 13:01 | 27.28              | 351.76          | 08/09/92                    | 12:53 | 7.09               | 355.73          | 08/09/92                    | 12:54 | 10.34              | 352.23          |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                    | 08:54 | 27.06              | 351.98          | 08/10/92                    | 08:48 | 7.21               | 355.61          | 08/10/92                    | 08:49 | 10.18              | 352.39          |
|                                                                                        |                             | 09:10 | 27.06              | 351.98          |                             | 09:06 | 7.22               | 355.60          |                             | 09:07 | 10.16              | 352.41          |
|                                                                                        |                             | 09:33 | 27.06              | 351.98          |                             | 09:29 | 7.22               | 355.60          |                             | 09:30 | 10.17              | 352.40          |
|                                                                                        |                             | 09:52 | 27.06              | 351.98          |                             | 09:47 | 7.22               | 355.60          |                             | 09:48 | 10.16              | 352.41          |
|                                                                                        |                             | 10:11 | 27.06              | 351.98          |                             | 10:06 | 7.22               | 355.60          |                             | 10:07 | 10.16              | 352.41          |
|                                                                                        |                             | 10:32 | 27.05              | 351.99          |                             | 10:26 | 7.22               | 355.60          |                             | 10:27 | 10.17              | 352.40          |
|                                                                                        |                             | 12:23 | 27.01              | 352.03          |                             | 12:20 | 7.19               | 355.63          |                             | 12:20 | 10.12              | 352.45          |
|                                                                                        |                             | 14:05 | 27.00              | 352.04          |                             | 13:59 | 7.19               | 355.63          |                             | 14:00 | 10.11              | 352.46          |
|                                                                                        |                             | 15:48 | 26.99              | 352.05          |                             | 15:42 | 7.19               | 355.63          |                             | 15:43 | 10.12              | 352.45          |
|                                                                                        |                             | 17:25 | 26.99              | 352.05          |                             | 17:21 | 7.21               | 355.61          |                             | 17:22 | 10.11              | 352.46          |



|                                               | MW-49D<br>MPE = 379.04 famsl |       |                    |                 | MW-50S<br>MPE = 362.82 famsl |       |                    |                 | MW-50I<br>MPE = 362.57 famsl |       |                    |                 |
|-----------------------------------------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|------------------------------|-------|--------------------|-----------------|
| notes                                         | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation | date                         | time  | water level (fbmp) | water elevation |
|                                               | 08/11/92                     | 06:42 | 26.94              | 352.10          | 08/11/92                     | 06:44 | 7.30               | 355.52          | 08/11/92                     | 06:45 | 10.09              | 352.48          |
|                                               |                              | 12:55 | 26.86              | 352.18          |                              | 12:49 | 7.20               | 355.62          |                              | 12:50 | 10.05              | 352.52          |
|                                               | 08/12/92                     | 17:16 | 26.90              | 352.14          |                              | 17:11 | 7.22               | 355.60          | 08/12/92                     | 17:12 | 10.04              | 352.53          |
|                                               |                              | 06:39 | 26.84              | 352.20          | 08/12/92                     | 06:41 | 7.41               | 355.41          |                              | 06:42 | 10.01              | 352.56          |
|                                               |                              | 13:54 | 26.81              | 352.23          |                              | 13:49 | 7.53               | 355.29          |                              | 13:49 | 10.01              | 352.56          |
|                                               |                              | 18:43 | 26.76              | 352.28          |                              | 18:36 | 7.54               | 355.28          |                              | 18:37 | 9.95               | 352.62          |
| 08/13 07:45<br>PHASE IVA START                | 08/13/92                     | 07:37 | 26.74              | 352.30          | 08/13/92                     | 07:31 | 7.73               | 355.09          | 08/13/92                     | 07:32 | 9.95               | 352.62          |
| K-1 on 530gpm<br>K-2/M-2 off                  |                              | 08:10 | 26.73              | 352.31          |                              | 08:04 | 7.74               | 355.08          |                              | 08:05 | 9.94               | 352.63          |
|                                               |                              | 08:29 | 26.74              | 352.30          |                              | 08:24 | 7.74               | 355.08          |                              | 08:25 | 9.94               | 352.63          |
|                                               |                              | 08:49 | 26.74              | 352.30          |                              | 08:44 | 7.74               | 355.08          |                              | 08:45 | 9.94               | 352.63          |
|                                               |                              | 09:08 | 26.74              | 352.30          |                              | 09:04 | 7.74               | 355.08          |                              | 09:05 | 9.94               | 352.63          |
|                                               |                              | 09:29 | 26.74              | 352.30          |                              | 09:25 | 7.75               | 355.07          |                              | 09:25 | 9.94               | 352.63          |
|                                               |                              | 11:08 | 26.74              | 352.30          |                              | 11:03 | 7.77               | 355.05          |                              | 11:04 | 9.95               | 352.62          |
|                                               |                              | 12:52 | 26.74              | 352.30          |                              | 12:44 | 7.79               | 355.03          |                              | 12:45 | 9.95               | 352.62          |
|                                               |                              | 14:25 | 26.74              | 352.30          |                              | 14:18 | 7.79               | 355.03          |                              | 14:19 | 9.95               | 352.62          |
|                                               |                              | 16:04 | 26.74              | 352.30          |                              | 16:05 | 7.80               | 355.02          |                              | 16:05 | 9.93               | 352.64          |
|                                               |                              | 18:51 | 26.74              | 352.30          |                              | 18:46 | 7.83               | 354.99          |                              | 18:47 | 9.95               | 352.62          |
| 08/14 09:00<br>PHASE IVB START                | 08/14/92                     | 06:53 | 26.79              | 352.25          | 08/14/92                     | 06:55 | 7.91               | 354.91          | 08/14/92                     | 06:57 | 9.96               | 352.61          |
| K-1 on 568gpm<br>K-2/M-2 off                  |                              | 13:40 | 26.79              | 352.25          |                              | 13:38 | 7.97               | 354.85          |                              | 13:37 | 9.99               | 352.58          |
|                                               |                              | 18:25 | 26.83              | 352.21          |                              | 18:16 | 8.00               | 354.82          |                              | 18:17 | 10.02              | 352.55          |
|                                               | 08/15/92                     | 08:24 | 26.89              | 352.15          | 08/15/92                     | 08:18 | 8.13               | 354.69          | 08/15/92                     | 08:19 | 10.10              | 352.47          |
|                                               |                              | 15:58 | 26.96              | 352.08          |                              | 15:54 | 8.20               | 354.62          |                              | 15:53 | 10.10              | 352.47          |
|                                               | 08/16/92                     | 09:54 | 26.96              | 352.08          | 08/16/92                     | 09:49 | 8.34               | 354.48          | 08/16/92                     | 09:50 | 10.13              | 352.44          |
|                                               |                              | 17:55 | 27.01              | 352.03          |                              | 17:49 | 8.40               | 354.42          |                              | 17:49 | 10.15              | 352.42          |
|                                               | 08/17/92                     | 09:30 | 27.05              | 351.99          | 08/17/92                     | 09:33 | 8.54               | 354.28          | 08/17/92                     | 09:34 | 10.20              | 352.37          |
|                                               |                              | 17:40 | 27.10              | 351.94          |                              | 17:42 | 8.62               | 354.20          |                              | 17:43 | 10.20              | 352.37          |
|                                               | 08/18/92                     | 08:54 | 27.11              | 351.93          | 08/18/92                     | 08:50 | 8.69               | 354.13          | 08/18/92                     | 08:50 | 10.23              | 352.34          |
|                                               |                              | 14:46 | 27.12              | 351.92          |                              | 14:42 | 8.71               | 354.11          |                              | 14:43 | 10.22              | 352.35          |
|                                               |                              | 19:04 | 27.13              | 351.91          |                              | 18:59 | 8.74               | 354.08          |                              | 18:59 | 10.23              | 352.34          |
| 08/19 08:00<br>PHASE V START                  | 08/19/92                     | 08:29 | 27.15              | 351.89          | 08/19/92                     | 08:23 | 8.84               | 353.98          | 08/19/92                     | 08:24 | 10.28              | 352.29          |
| K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm |                              | 08:46 | 27.15              | 351.89          |                              | 08:41 | 8.83               | 353.99          |                              | 08:42 | 10.28              | 352.29          |
|                                               |                              | 09:05 | 27.16              | 351.88          |                              | 09:00 | 8.85               | 353.97          |                              | 09:00 | 10.30              | 352.27          |
|                                               |                              | 09:24 | 27.16              | 351.88          |                              | 09:20 | 8.81               | 354.01          |                              | 09:21 | 10.30              | 352.27          |
|                                               |                              | 09:46 | 27.19              | 351.85          |                              | 09:41 | 8.84               | 353.98          |                              | 09:43 | 10.31              | 352.26          |
|                                               |                              | 11:25 | 27.23              | 351.81          |                              | 11:21 | 8.88               | 353.94          |                              | 11:22 | 10.35              | 352.22          |
|                                               |                              | 13:08 | 27.26              | 351.78          |                              | 13:04 | 8.90               | 353.92          |                              | 13:04 | 10.40              | 352.17          |
|                                               |                              | 14:49 | 27.29              | 351.75          |                              | 14:45 | 8.91               | 353.91          |                              | 14:45 | 10.43              | 352.14          |
|                                               |                              | 16:26 | 27.31              | 351.73          |                              | 16:22 | 8.93               | 353.89          |                              | 16:22 | 10.48              | 352.09          |
|                                               |                              | 20:28 | 27.37              | 351.67          |                              | 20:21 | 8.99               | 353.83          |                              | 20:22 | 10.56              | 352.01          |
|                                               | 08/20/92                     | 08:50 | 27.53              | 351.51          | 08/20/92                     | 08:45 | 9.15               | 353.67          | 08/20/92                     | 08:45 | 10.75              | 351.82          |
|                                               |                              | 14:05 | 27.63              | 351.41          |                              | 13:59 | 9.22               | 353.60          |                              | 14:31 | 10.83              | 351.74          |
|                                               |                              | 19:15 | 27.62              | 351.42          |                              | 19:10 | 9.24               | 353.58          |                              | 19:11 | 10.85              | 351.72          |
|                                               | 08/21/92                     | 07:52 | 27.74              | 351.30          | 08/21/92                     | 07:57 | 9.39               | 353.43          | 08/21/92                     | 07:56 | 11.01              | 351.56          |
|                                               |                              | 14:26 | 27.77              | 351.27          |                              | 14:21 | 9.44               | 353.38          |                              | 14:22 | 11.02              | 351.55          |
|                                               | 08/22/92                     | 17:06 | 27.95              | 351.09          | 08/22/92                     | 17:00 | 9.68               | 353.14          | 08/22/92                     | 17:01 | 11.21              | 351.36          |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

|                                                                                        | MW-50D<br>MPE = 362.67 fmsl |       |                          |                         | MW-57S<br>MPE = 365.01 fmsl |       |                          |                         | MW-57D<br>MPE = 365.23 fmsl |       |                          |                         |
|----------------------------------------------------------------------------------------|-----------------------------|-------|--------------------------|-------------------------|-----------------------------|-------|--------------------------|-------------------------|-----------------------------|-------|--------------------------|-------------------------|
| notes                                                                                  | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                    | 08:00 | 12.32                    | 350.35                  | 08/03/92                    | 07:57 | 21.18                    | 343.83                  | 08/03/92                    | 07:58 | 21.61                    | 343.62                  |
|                                                                                        |                             | 08:23 | 12.32                    | 350.35                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 08:41 | 12.32                    | 350.35                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 08:59 | 12.30                    | 350.37                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 09:20 | 12.30                    | 350.37                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 09:40 | 12.31                    | 350.36                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 11:37 | 12.24                    | 350.43                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 13:15 | 12.21                    | 350.46                  |                             | 12:09 | 21.18                    | 343.83                  |                             | 12:11 | 21.58                    | 343.65                  |
|                                                                                        |                             | 14:55 | 12.18                    | 350.49                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 16:36 | 12.14                    | 350.53                  |                             | 16:16 | 21.15                    | 343.86                  |                             | 16:17 | 21.56                    | 343.67                  |
|                                                                                        |                             | 18:26 | 12.11                    | 350.56                  |                             | 18:39 | 21.11                    | 343.90                  |                             | 18:40 | 21.53                    | 343.70                  |
|                                                                                        | 08/04/92                    | 07:53 | 11.77                    | 350.90                  | 08/04/92                    | 07:01 | 20.96                    | 344.05                  | 08/04/92                    | 07:00 | 21.35                    | 343.88                  |
|                                                                                        |                             | 12:43 | 11.67                    | 351.00                  |                             | 12:43 | 20.88                    | 344.13                  |                             | 13:41 | 21.29                    | 343.94                  |
|                                                                                        |                             | 19:22 | 11.55                    | 351.12                  |                             | 07:35 | 20.80                    | 344.21                  |                             | 07:36 | 21.16                    | 344.07                  |
|                                                                                        | 08/05/92                    | 06:57 | 11.44                    | 351.23                  | 08/05/92                    | 08:04 | 20.68                    | 344.33                  | 08/05/92                    | 08:05 | 21.01                    | 344.22                  |
|                                                                                        |                             | 12:47 | 11.40                    | 351.27                  |                             | 12:54 | 20.62                    | 344.39                  |                             | 12:55 | 21.00                    | 344.23                  |
|                                                                                        |                             | 19:30 | 11.35                    | 351.32                  |                             | 19:35 | 20.58                    | 344.43                  |                             | 19:36 | 20.96                    | 344.27                  |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                    | 07:02 | 11.33                    | 351.34                  | 08/06/92                    | 08:05 | 20.53                    | 344.48                  | 08/06/92                    | 08:06 | 20.97                    | 344.26                  |
|                                                                                        |                             | 08:17 | 11.33                    | 351.34                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 08:30 | 11.33                    | 351.34                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 08:53 | 11.32                    | 351.35                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 09:15 | 11.32                    | 351.35                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 09:34 | 11.32                    | 351.35                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 09:54 | 11.32                    | 351.35                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 11:42 | 11.34                    | 351.33                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 13:16 | 11.31                    | 351.36                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 15:03 | 11.28                    | 351.39                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 16:42 | 11.26                    | 351.41                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 18:39 | 11.23                    | 351.44                  |                             |       |                          |                         |                             |       |                          |                         |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                    | 07:52 | 11.09                    | 351.58                  | 08/07/92                    |       |                          |                         | 08/07/92                    |       |                          |                         |
|                                                                                        |                             | 12:02 | 11.01                    | 351.66                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 12:34 | 11.00                    | 351.67                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 12:56 | 10.99                    | 351.68                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 13:14 | 10.99                    | 351.68                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 13:34 | 10.99                    | 351.68                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 16:35 | 10.96                    | 351.71                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        | 08/08/92                    | 11:15 | 10.73                    | 351.94                  | 08/08/92                    | 11:00 | 16.78                    | 348.23                  | 08/08/92                    | 11:00 | 16.21                    | 349.02                  |
|                                                                                        |                             | 17:54 | 10.66                    | 352.01                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        | 08/09/92                    | 12:55 | 10.44                    | 352.23                  | 08/09/92                    |       |                          |                         | 08/09/92                    |       |                          |                         |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                    | 08:50 | 10.29                    | 352.38                  | 08/10/92                    |       |                          |                         | 08/10/92                    |       |                          |                         |
|                                                                                        |                             | 09:07 | 10.28                    | 352.39                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 09:30 | 10.27                    | 352.40                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 09:49 | 10.27                    | 352.40                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 10:08 | 10.26                    | 352.41                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 10:28 | 10.26                    | 352.41                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 12:21 | 10.21                    | 352.46                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 14:01 | 10.21                    | 352.46                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 15:43 | 10.21                    | 352.46                  |                             |       |                          |                         |                             |       |                          |                         |
|                                                                                        |                             | 17:23 | 10.21                    | 352.46                  |                             | 17:30 | 16.17                    | 348.84                  |                             | 17:30 | 16.21                    | 349.02                  |

|                                                                                   | MW-50D<br>MPE = 362.67 famsl |       |                          |                         | MW-57S<br>MPE = 365.01 famsl |       |                          |                         | MW-57D<br>MPE = 365.23 famsl |       |                          |                         |
|-----------------------------------------------------------------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|------------------------------|-------|--------------------------|-------------------------|
| notice                                                                            | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
|                                                                                   | 08/11/92                     | 06:45 | 10.20                    | 352.47                  | 08/11/92                     |       |                          |                         | 08/11/92                     |       |                          |                         |
|                                                                                   |                              | 12:51 | 10.14                    | 352.53                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   | 08/12/92                     | 17:13 | 10.16                    | 352.51                  | 08/12/92                     | 17:00 | 16.22                    | 348.79                  | 08/12/92                     | 17:00 | 16.23                    | 349.00                  |
|                                                                                   |                              | 06:42 | 10.12                    | 352.55                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 13:50 | 10.10                    | 352.57                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 18:37 | 10.07                    | 352.60                  |                              |       |                          |                         |                              |       |                          |                         |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                     | 07:33 | 10.05                    | 352.62                  | 08/13/92                     |       |                          |                         | 08/13/92                     |       |                          |                         |
|                                                                                   |                              | 08:06 | 10.05                    | 352.62                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 08:26 | 10.05                    | 352.62                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 08:45 | 10.04                    | 352.63                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 09:05 | 10.04                    | 352.63                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 09:26 | 10.04                    | 352.63                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 11:05 | 10.07                    | 352.60                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 12:46 | 10.06                    | 352.61                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 14:20 | 10.06                    | 352.61                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 16:06 | 10.04                    | 352.63                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 18:48 | 10.07                    | 352.60                  |                              |       |                          |                         |                              |       |                          |                         |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                     | 06:58 | 10.08                    | 352.59                  | 08/14/92                     |       |                          |                         | 08/14/92                     |       |                          |                         |
|                                                                                   |                              | 13:36 | 10.12                    | 352.55                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 18:18 | 10.13                    | 352.54                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   | 08/15/92                     | 08:20 | 10.18                    | 352.49                  | 08/15/92                     | 08:00 | 18.30                    | 346.71                  | 08/15/92                     | 08:00 | 18.56                    | 346.67                  |
|                                                                                   |                              | 15:52 | 10.20                    | 352.47                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   | 08/16/92                     | 09:50 | 10.25                    | 352.42                  | 08/16/92                     | 10:15 | 18.63                    | 346.38                  | 08/16/92                     | 10:15 | 18.87                    | 346.36                  |
|                                                                                   |                              | 17:50 | 10.26                    | 352.41                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   | 08/17/92                     | 09:35 | 10.31                    | 352.36                  | 08/17/92                     |       |                          |                         | 08/17/92                     |       |                          |                         |
|                                                                                   |                              | 17:44 | 10.32                    | 352.35                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   | 08/18/92                     | 08:51 | 10.34                    | 352.33                  | 08/18/92                     |       |                          |                         | 08/18/92                     |       |                          |                         |
|                                                                                   |                              | 14:43 | 10.34                    | 352.33                  |                              | 13:24 | 18.91                    | 346.10                  |                              | 13:25 | 19.29                    | 345.94                  |
|                                                                                   |                              | 19:00 | 10.35                    | 352.32                  |                              | 19:13 | 10.96                    | 354.05                  |                              | 19:14 | 19.35                    | 345.88                  |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                     |       |                          |                         | 08/19/92                     | 08:04 | 19.06                    | 345.95                  | 08/19/92                     | 08:05 | 19.44                    | 345.79                  |
|                                                                                   |                              | 08:25 | 10.37                    | 352.30                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 08:43 | 10.39                    | 352.28                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 09:01 | 10.39                    | 352.28                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 09:22 | 10.40                    | 352.27                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 09:43 | 10.41                    | 352.26                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 11:22 | 10.48                    | 352.19                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 13:05 | 10.52                    | 352.15                  |                              | 12:13 | 19.08                    | 345.93                  |                              | 12:14 | 19.47                    | 345.76                  |
|                                                                                   |                              | 14:46 | 10.55                    | 352.12                  |                              |       |                          |                         |                              |       |                          |                         |
|                                                                                   |                              | 16:23 | 10.60                    | 352.07                  |                              | 16:42 | 19.14                    | 345.87                  |                              | 16:42 | 19.54                    | 345.69                  |
|                                                                                   |                              | 20:23 | 10.68                    | 351.99                  |                              | 19:27 | 19.20                    | 345.81                  |                              | 19:25 | 19.60                    | 345.63                  |
|                                                                                   | 08/20/92                     | 08:46 | 10.87                    | 351.80                  | 08/20/92                     | 08:57 | 19.36                    | 345.65                  | 08/20/92                     | 08:58 | 19.78                    | 345.45                  |
|                                                                                   |                              | 14:01 | 10.94                    | 351.73                  |                              | 14:27 | 19.43                    | 345.58                  |                              | 14:28 | 19.86                    | 345.37                  |
|                                                                                   |                              | 19:11 | 10.98                    | 351.69                  |                              | 19:22 | 19.47                    | 345.54                  |                              | 19:24 | 19.89                    | 345.34                  |
|                                                                                   | 08/21/92                     | 07:55 | 11.12                    | 351.55                  | 08/21/92                     | 09:15 | 19.64                    | 345.37                  | 08/21/92                     | 09:16 | 20.06                    | 345.17                  |
|                                                                                   |                              | 14:22 | 11.15                    | 351.52                  |                              | 14:59 | 19.68                    | 345.33                  |                              | 15:00 | 20.10                    | 345.13                  |
|                                                                                   | 08/22/92                     | 17:01 | 11.33                    | 351.34                  | 08/22/92                     | 17:20 | 19.90                    | 345.11                  | 08/22/92                     | 17:21 | 20.32                    | 344.91                  |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

| notes                                                                                  | K-1<br>MPE = 355.54 famsl |       |                          |                         | M-1<br>MPE = 354.12 famsl |       |                          |                         | K-2<br>MPE = 355.51 famsl |       |                          |                         |
|----------------------------------------------------------------------------------------|---------------------------|-------|--------------------------|-------------------------|---------------------------|-------|--------------------------|-------------------------|---------------------------|-------|--------------------------|-------------------------|
|                                                                                        | date                      | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                      | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                      | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                  | 06:52 | 19.12                    | 336.42                  | 08/03/92                  | 06:45 | 7.10                     | 347.02                  | 08/03/92                  | 08:00 |                          |                         |
|                                                                                        |                           | 08:24 | 19.16                    | 336.38                  |                           | 08:21 | 7.40                     | 346.72                  |                           | 08:00 | 15.18                    | 340.33                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 08:20 | 14.76                    | 340.75                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 08:40 | 14.30                    | 341.21                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 09:00 | 13.89                    | 341.62                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 09:20 | 13.50                    | 342.01                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 09:40 | 13.14                    | 342.37                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 10:00 | 12.78                    | 342.73                  |
|                                                                                        |                           | 12:22 | 19.12                    | 336.42                  |                           | 12:17 | 7.29                     | 346.83                  |                           | 11:20 | 11.49                    | 344.02                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 12:20 | 10.72                    | 344.79                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 13:00 | 10.25                    | 345.26                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 14:40 | 9.31                     | 346.20                  |
|                                                                                        |                           | 16:27 | 19.15                    | 336.39                  |                           | 16:21 | 7.17                     | 346.95                  |                           | 16:20 | 8.62                     | 346.89                  |
|                                                                                        |                           | 18:52 | 19.12                    | 336.42                  |                           | 18:45 | 7.10                     | 347.02                  |                           | 18:40 | 7.94                     | 347.57                  |
|                                                                                        | 08/04/92                  | 06:46 | 18.95                    | 336.59                  | 08/04/92                  | 06:55 | 6.60                     | 347.52                  | 08/04/92                  | 07:20 | 6.50                     | 349.01                  |
|                                                                                        |                           | 13:11 | 18.84                    | 336.70                  |                           | 13:19 | 6.47                     | 347.65                  |                           | 14:00 | 6.26                     | 349.25                  |
|                                                                                        |                           | 19:40 | 18.74                    | 336.80                  |                           | 19:48 | 6.28                     | 347.84                  |                           | 20:40 | 5.98                     | 349.53                  |
|                                                                                        | 08/05/92                  | 17:18 | 18.61                    | 336.93                  | 08/05/92                  | 17:30 | 6.14                     | 347.98                  | 08/05/92                  | 06:40 | 5.86                     | 349.65                  |
|                                                                                        |                           | 12:27 | 18.57                    | 336.97                  |                           | 12:23 | 6.10                     | 348.02                  |                           | 13:20 | 5.86                     | 349.65                  |
|                                                                                        |                           | 19:10 | 18.56                    | 336.98                  |                           | 19:06 | 6.11                     | 348.01                  |                           | 17:52 | 6.07                     | 349.44                  |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                  | 07:54 | 18.50                    | 337.04                  | 08/06/92                  | 07:58 | 6.11                     | 348.01                  | 08/06/92                  | 07:24 | 6.03                     | 349.48                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 08:20 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 08:35 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 08:50 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 09:10 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 09:30 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 09:50 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 10:40 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 11:30 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 12:32 | 6.01                     | 349.50                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 13:20 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 14:00 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 15:00 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 15:40 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 16:33 | 5.94                     | 349.57                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 17:00 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 18:20 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 19:01 | 5.86                     | 349.65                  |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                  | 11:51 | 8.15                     | 347.39                  | 08/07/92                  | 11:53 | 4.36                     | 349.76                  | 08/07/92                  | 07:25 | 5.68                     | 349.83                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 11:50 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 12:06 | 5.44                     | 350.07                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 12:30 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 12:50 |                          |                         |
|                                                                                        |                           | 14:43 | 8.43                     | 347.11                  |                           | 15:07 | 4.34                     | 349.78                  |                           | 13:10 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 13:30 |                          |                         |
|                                                                                        | 08/08/92                  |       |                          |                         | 08/08/92                  |       |                          |                         | 08/08/92                  | 16:39 | 4.80                     | 350.71                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 10:29 | 4.53                     | 350.98                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 17:15 | 4.58                     | 350.93                  |
|                                                                                        | 08/09/92                  |       |                          |                         | 08/09/92                  |       |                          |                         | 08/09/92                  | 11:55 | 4.70                     | 350.81                  |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                  |       |                          |                         | 08/10/92                  |       |                          |                         | 08/10/92                  | 08:25 | 4.34                     | 351.17                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 09:10 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 09:30 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 09:50 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 10:10 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 10:30 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 12:10 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 13:17 | 4.34                     | 351.17                  |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 13:50 |                          |                         |
|                                                                                        |                           |       |                          |                         |                           |       |                          |                         |                           | 15:30 |                          |                         |
|                                                                                        |                           | 17:25 | 9.37                     | 346.17                  |                           |       |                          |                         |                           | 17:04 | 4.38                     | 351.13                  |

| notes                                                                             | K-1<br>MPE = 355.54 famsl |       |                    |                 | M-1<br>MPE = 354.12 famsl |       |                    |                 | K-2<br>MPE = 355.51 famsl |       |                    |                 |
|-----------------------------------------------------------------------------------|---------------------------|-------|--------------------|-----------------|---------------------------|-------|--------------------|-----------------|---------------------------|-------|--------------------|-----------------|
|                                                                                   | date                      | time  | water level (fbmp) | water elevation | date                      | time  | water level (fbmp) | water elevation | date                      | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                  |       |                    |                 | 08/11/92                  |       |                    |                 | 08/11/92                  | 05:59 | 4.42               | 351.09          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 06:50 |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 12:11 | 4.32               | 351.19          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 14:50 |                    |                 |
|                                                                                   |                           | 16:55 | 9.42               | 346.12          |                           |       |                    |                 |                           | 16:55 | 4.34               | 351.17          |
|                                                                                   | 08/12/92                  |       |                    |                 | 08/12/92                  |       |                    |                 | 08/12/92                  | 05:57 | 4.36               | 351.15          |
|                                                                                   |                           | 08:55 | 9.73               | 345.81          |                           |       |                    |                 |                           | 06:50 |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 12:49 | 4.41               | 351.10          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 17:17 | 4.51               | 351.00          |
|                                                                                   |                           | 17:55 | 9.86               | 345.68          |                           |       |                    |                 |                           | 18:40 |                    |                 |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                  | 07:25 | 9.98               | 345.56          | 08/13/92                  |       |                    |                 | 08/13/92                  | 07:32 | 4.37               | 351.14          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 08:00 |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 08:20 |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 08:40 |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 09:00 |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 09:20 |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 09:40 |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 12:00 | 4.41               | 351.10          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 13:00 |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 14:40 |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 16:10 | 4.48               | 351.03          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 19:04 | 4.47               | 351.04          |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                  |       |                    |                 | 08/14/92                  |       |                    |                 | 08/14/92                  | 06:06 | 4.56               | 350.95          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 12:35 | 4.62               | 350.89          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 17:32 | 4.65               | 350.86          |
|                                                                                   | 08/15/92                  | 08:10 | 15.48              | 340.06          | 08/15/92                  |       |                    |                 | 08/15/92                  | 07:31 | 4.77               | 350.74          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 15:10 | 4.84               | 350.67          |
|                                                                                   | 08/16/92                  | 10:10 | 15.76              | 339.78          | 08/16/92                  |       |                    |                 | 08/16/92                  | 10:29 | 4.92               | 350.59          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 17:08 | 4.95               | 350.56          |
|                                                                                   | 08/17/92                  |       |                    |                 | 08/17/92                  |       |                    |                 | 08/17/92                  | 08:47 | 5.02               | 350.49          |
|                                                                                   |                           | 17:40 | 15.87              | 339.67          |                           |       |                    |                 |                           | 17:17 | 5.02               | 350.49          |
|                                                                                   | 08/18/92                  |       |                    |                 | 08/18/92                  |       |                    |                 | 08/18/92                  | 08:11 | 5.02               | 350.49          |
|                                                                                   |                           | 11:50 | 17.06              | 338.48          |                           | 11:36 | 4.90               | 349.22          |                           | 13:44 | 5.04               | 350.47          |
|                                                                                   |                           | 19:30 | 17.15              | 338.39          |                           | 19:21 | 4.91               | 349.21          |                           | 18:50 |                    |                 |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                  | 08:05 | 17.23              | 338.31          | 08/19/92                  | 08:15 | 5.01               | 349.11          | 08/19/92                  | 08:00 | 5.56               | 349.95          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 08:20 | 6.01               | 349.50          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 08:40 | 6.51               | 349.00          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 09:00 | 6.99               | 348.52          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 09:20 | 7.46               | 348.05          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 09:40 | 7.88               | 347.63          |
|                                                                                   |                           | 12:15 | 17.30              | 338.24          |                           | 12:09 | 5.24               | 348.88          |                           | 11:20 | 9.60               | 345.91          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 13:00 | 10.84              | 344.67          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           | 14:40 | 11.69              | 343.82          |
|                                                                                   |                           | 16:44 | 17.34              | 338.20          |                           | 16:35 | 5.47               | 348.65          |                           | 16:20 | 12.32              | 343.19          |
|                                                                                   |                           | 18:57 | 17.40              | 338.14          |                           | 18:49 | 5.57               | 348.55          |                           | 20:00 | 13.21              | 342.30          |
|                                                                                   | 08/20/92                  | 09:09 | 17.58              | 337.96          | 08/20/92                  | 09:04 | 5.91               | 348.21          | 08/20/92                  | 08:00 | 14.25              | 341.26          |
|                                                                                   |                           | 14:30 | 17.66              | 337.88          |                           | 14:19 | 5.97               | 348.15          |                           | 14:00 | 14.43              | 341.08          |
|                                                                                   |                           | 19:53 | 17.71              | 337.83          |                           | 19:59 | 6.05               | 348.07          |                           | 20:00 | 14.54              | 340.97          |
|                                                                                   | 08/21/92                  | 08:44 | 17.85              | 337.69          | 08/21/92                  | 08:49 | 6.20               | 347.92          | 08/21/92                  | 08:00 | 14.65              | 340.86          |
|                                                                                   |                           | 15:17 | 17.92              | 337.62          |                           | 15:15 | 6.25               | 347.87          |                           | 14:49 | 14.34              | 341.17          |
|                                                                                   | 08/22/92                  | 17:23 | 18.15              | 337.39          | 08/22/92                  | 17:39 | 6.44               | 347.68          | 08/22/92                  | 16:36 | 14.50              | 341.01          |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

| notes                                                                                  | M-2<br>MPE = 356.27 fmsl |       |                          |                         | USGS-1<br>MPE = 356.30 fmsl |       |                          |                         | USGS-2<br>MPE = 355.81 fmsl |       |                          |                         |
|----------------------------------------------------------------------------------------|--------------------------|-------|--------------------------|-------------------------|-----------------------------|-------|--------------------------|-------------------------|-----------------------------|-------|--------------------------|-------------------------|
|                                                                                        | date                     | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                        | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                 | 08:00 | 26.60                    | 329.67                  | 08/03/92                    | 06:47 | 9.42                     | 346.88                  | 08/03/92                    | 08:00 | 7.54                     | 348.27                  |
|                                                                                        |                          |       |                          |                         |                             | 08:20 | 9.44                     | 346.86                  |                             |       |                          |                         |
|                                                                                        |                          |       |                          |                         |                             | 12:16 | 9.43                     | 346.87                  |                             |       |                          |                         |
|                                                                                        |                          |       |                          |                         |                             | 16:20 | 9.43                     | 346.87                  |                             |       |                          |                         |
|                                                                                        |                          |       |                          |                         |                             | 18:47 | 9.42                     | 346.88                  |                             |       |                          |                         |
|                                                                                        | 08/04/92                 |       |                          |                         | 08/04/92                    | 06:54 | 8.78                     | 347.52                  | 08/04/92                    |       |                          |                         |
|                                                                                        |                          |       |                          |                         |                             | 13:17 | 8.69                     | 347.61                  |                             |       |                          |                         |
|                                                                                        |                          |       |                          |                         |                             | 19:47 | 8.48                     | 347.82                  |                             |       |                          |                         |
|                                                                                        | 08/05/92                 |       |                          |                         | 08/05/92                    | 17:25 | 8.32                     | 347.98                  | 08/05/92                    |       |                          |                         |
|                                                                                        |                          | 17:50 | 6.52                     | 349.75                  |                             | 12:22 | 8.32                     | 347.98                  |                             |       |                          |                         |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                 | 07:23 | 6.50                     | 349.77                  | 08/06/92                    | 07:57 | 8.16                     | 348.14                  | 08/06/92                    | 07:29 | 5.56                     | 350.25                  |
|                                                                                        |                          | 12:33 | 6.44                     | 349.83                  |                             |       |                          |                         |                             | 12:34 | 5.54                     | 350.27                  |
|                                                                                        |                          | 16:34 | 6.36                     | 349.91                  |                             |       |                          |                         |                             | 16:32 | 5.48                     | 350.33                  |
|                                                                                        |                          | 19:05 | 6.26                     | 350.01                  |                             |       |                          |                         |                             | 19:00 | 5.40                     | 350.41                  |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                 | 07:26 | 5.98                     | 350.29                  | 08/07/92                    | 10:50 | 6.89                     | 349.41                  | 08/07/92                    | 06:58 | 5.15                     | 350.66                  |
|                                                                                        |                          | 12:13 | 5.85                     | 350.42                  |                             |       |                          |                         |                             | 12:09 | 5.03                     | 350.78                  |
|                                                                                        |                          | 16:50 | 5.63                     | 350.64                  |                             | 15:08 | 6.01                     | 350.29                  |                             | 16:43 | 4.94                     | 350.87                  |
|                                                                                        | 08/08/92                 | 10:18 | 5.34                     | 350.93                  | 08/08/92                    |       |                          |                         | 08/08/92                    | 10:24 | 4.65                     | 351.16                  |
|                                                                                        |                          | 17:22 | 5.21                     | 351.06                  |                             |       |                          |                         |                             | 17:11 | 4.54                     | 351.27                  |
|                                                                                        | 08/09/92                 | 11:31 | 5.03                     | 351.24                  | 08/09/92                    |       |                          |                         | 08/09/92                    | 11:44 | 4.29                     | 351.52                  |
|                                                                                        | 08/10/92                 | 08:25 | 4.78                     | 351.49                  | 08/10/92                    |       |                          |                         | 08/10/92                    | 08:34 | 4.08                     | 351.73                  |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    |                          | 13:18 | 4.83                     | 351.44                  |                             |       |                          |                         |                             | 13:13 | 4.12                     | 351.69                  |
|                                                                                        |                          | 17:16 | 4.86                     | 351.41                  |                             |       |                          |                         |                             | 17:09 | 4.16                     | 351.65                  |
|                                                                                        |                          |       |                          |                         |                             |       |                          |                         |                             |       |                          |                         |



| notes                                                                             | M-2<br>MPE = 356.27 famsl |       |                          |                         | USGS-1<br>MPE = 356.30 famsl |          |                          |                         | USGS-2<br>MPE = 355.81 famsl |        |                          |                         |        |
|-----------------------------------------------------------------------------------|---------------------------|-------|--------------------------|-------------------------|------------------------------|----------|--------------------------|-------------------------|------------------------------|--------|--------------------------|-------------------------|--------|
|                                                                                   | date                      | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time     | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                         | time   | water<br>level<br>(fbmp) | water<br>ele-<br>vation |        |
|                                                                                   | 08/11/92                  | 05:58 | 4.84                     | 351.43                  | 08/11/92                     |          |                          |                         | 08/11/92                     | 07:26  | 4.11                     | 351.70                  |        |
|                                                                                   |                           | 12:14 | 4.78                     | 351.49                  |                              |          |                          |                         |                              | 12:06  | 4.07                     | 351.74                  |        |
|                                                                                   |                           | 14:57 | 4.83                     | 351.44                  |                              |          |                          |                         |                              | 14:40  | 4.10                     | 351.71                  |        |
|                                                                                   | 08/12/92                  | 05:55 | 4.86                     | 351.41                  | 08/12/92                     |          |                          |                         | 08/12/92                     | 06:08  | 4.12                     | 351.69                  |        |
|                                                                                   |                           | 12:36 | 4.87                     | 351.40                  |                              |          |                          |                         |                              | 12:43  | 4.14                     | 351.67                  |        |
|                                                                                   |                           | 17:14 | 4.87                     | 351.40                  |                              |          |                          |                         |                              | 17:27  | 4.11                     | 351.70                  |        |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                  | 07:35 | 4.84                     | 351.43                  | 08/13/92                     |          |                          |                         | 08/13/92                     | 07:29  | 4.11                     | 351.70                  |        |
|                                                                                   |                           |       |                          |                         |                              |          |                          |                         |                              |        |                          |                         |        |
|                                                                                   |                           | 12:01 | 4.92                     | 351.35                  |                              |          |                          |                         |                              | 11:56  | 4.15                     | 351.66                  |        |
|                                                                                   |                           | 16:17 | 4.95                     | 351.32                  |                              |          |                          |                         |                              | 16:06  | 4.18                     | 351.63                  |        |
|                                                                                   |                           | 19:08 | 4.97                     | 351.30                  |                              |          |                          |                         |                              |        | 19:00                    | 4.20                    | 351.61 |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                  | 06:04 | 5.06                     | 351.21                  | 08/14/92                     |          |                          |                         | 08/14/92                     | 06:19  | 4.28                     | 351.53                  |        |
|                                                                                   |                           | 12:40 | 5.10                     | 351.17                  |                              |          |                          |                         |                              | 12:31  | 4.32                     | 351.49                  |        |
|                                                                                   |                           | 17:37 | 5.15                     | 351.12                  |                              |          |                          |                         |                              | 17:28  | 4.38                     | 351.43                  |        |
|                                                                                   | 08/15/92                  | 07:10 | 5.25                     | 351.02                  | 08/15/92                     |          |                          |                         | 08/15/92                     | 07:23  | 4.38                     | 351.43                  |        |
|                                                                                   |                           | 14:57 | 5.33                     | 350.94                  |                              |          |                          |                         |                              | 15:06  | 4.46                     | 351.35                  |        |
|                                                                                   | 08/16/92                  | 09:10 | 5.38                     | 350.89                  | 08/16/92                     |          |                          |                         | 08/16/92                     | 10:25  | 4.52                     | 351.29                  |        |
|                                                                                   |                           | 17:00 | 5.44                     | 350.83                  |                              |          |                          |                         |                              | 17:05  | 4.60                     | 351.21                  |        |
|                                                                                   | 08/17/92                  |       |                          |                         | 08/17/92                     |          |                          |                         | 08/17/92                     | 08:54  | 4.60                     | 351.21                  |        |
|                                                                                   |                           | 17:18 | 5.48                     | 350.79                  |                              |          |                          |                         |                              | 17:12  | 4.65                     | 351.16                  |        |
| 08/18/92                                                                          | 08:00                     | 5.51  | 350.76                   | 08/18/92                |                              |          |                          | 08/18/92                | 08:08                        | 4.67   | 351.14                   |                         |        |
|                                                                                   | 13:37                     | 5.52  | 350.75                   |                         | 11:41                        | 6.60     | 349.70                   |                         | 13:39                        | 4.67   | 351.14                   |                         |        |
|                                                                                   |                           |       |                          |                         |                              | 19:23    | 6.64                     | 349.66                  |                              |        |                          |                         |        |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                  |       |                          |                         | 08/19/92                     | 08:13    | 6.67                     | 349.63                  | 08/19/92                     |        |                          |                         |        |
|                                                                                   |                           |       |                          |                         |                              |          |                          |                         |                              |        |                          |                         |        |
|                                                                                   |                           |       |                          |                         |                              | 12:11    | 6.70                     | 349.60                  |                              |        |                          |                         |        |
|                                                                                   |                           |       |                          |                         |                              | 16:39    | 6.73                     | 349.57                  |                              |        |                          |                         |        |
|                                                                                   |                           |       |                          | 18:52                   | 6.77                         | 349.53   |                          |                         |                              |        |                          |                         |        |
|                                                                                   | 08/20/92                  |       |                          |                         | 08/20/92                     | 09:06    | 6.89                     | 349.41                  | 08/20/92                     |        |                          |                         |        |
|                                                                                   |                           |       |                          |                         |                              | 14:21    | 6.94                     | 349.36                  |                              |        |                          |                         |        |
|                                                                                   |                           |       |                          |                         |                              | 19:49    | 6.97                     | 349.33                  |                              |        |                          |                         |        |
|                                                                                   |                           |       |                          |                         |                              | 08/21/92 | 08:48                    | 7.10                    |                              | 349.20 | 08/21/92                 |                         |        |
|                                                                                   |                           |       |                          | 15:13                   | 7.16                         | 349.14   |                          |                         |                              |        |                          |                         |        |
|                                                                                   |                           |       |                          | 17:16                   | 7.37                         | 348.93   | 08/22/92                 | 16:33                   | 6.79                         | 349.02 |                          |                         |        |
| 08/21/92                                                                          | 14:42                     | 30.92 | 325.35                   | 08/21/92                |                              |          |                          | 08/21/92                |                              |        |                          |                         |        |
| 08/22/92                                                                          | 16:15                     | 32.50 | 323.77                   | 08/22/92                |                              |          |                          | 08/22/92                |                              |        |                          |                         |        |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

| notes                                                                               | GW-1<br>MPE = 364.66 fmsl |       |                    |                 | GW-2<br>MPE = 354.04 fmsl |       |                    |                 | GW-4<br>MPE = 352.86 fmsl |       |                    |                 |
|-------------------------------------------------------------------------------------|---------------------------|-------|--------------------|-----------------|---------------------------|-------|--------------------|-----------------|---------------------------|-------|--------------------|-----------------|
|                                                                                     | date                      | time  | water level (fbmp) | water elevation | date                      | time  | water level (fbmp) | water elevation | date                      | time  | water level (fbmp) | water elevation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                     | 08/03/92                  | 08:01 | 19.89              | 344.77          | 08/03/92                  | 08:16 | 8.29               | 345.75          | 08/03/92                  | 08:14 | 8.36               | 344.50          |
|                                                                                     |                           | 12:14 | 19.88              | 344.78          |                           | 12:24 | 8.27               | 345.77          |                           | 12:22 | 8.36               | 344.50          |
|                                                                                     |                           | 16:22 | 19.89              | 344.77          |                           | 16:34 | 8.26               | 345.78          |                           | 16:32 | 8.38               | 344.48          |
|                                                                                     |                           | 19:01 | 19.87              | 344.79          |                           | 19:12 | 8.21               | 345.83          |                           | 19:11 | 8.31               | 344.55          |
|                                                                                     | 08/04/92                  | 06:20 | 19.81              | 344.85          | 08/04/92                  | 06:35 | 8.89               | 345.15          | 08/04/92                  | 06:37 | 6.94               | 345.92          |
|                                                                                     |                           | 13:33 | 19.78              | 344.88          |                           | 13:23 | 7.72               | 346.32          |                           | 13:22 | 6.58               | 346.28          |
|                                                                                     |                           | 19:59 | 19.74              | 344.92          |                           | 20:17 | 7.64               | 346.40          |                           | 20:14 | 6.35               | 346.51          |
|                                                                                     | 08/05/92                  | 07:28 | 19.66              | 345.00          | 08/05/92                  | 07:57 | 7.62               | 346.42          | 08/05/92                  | 07:54 | 6.40               | 346.46          |
|                                                                                     |                           | 12:32 | 19.62              | 345.04          |                           | 12:48 | 7.65               | 346.39          |                           | 12:46 | 6.43               | 346.43          |
|                                                                                     |                           | 19:31 | 19.61              | 345.05          |                           | 19:18 | 7.63               | 346.41          |                           | 19:16 | 6.51               | 346.35          |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                         | 08/06/92                  | 07:40 | 19.52              | 345.14          | 08/06/92                  | 07:50 | 7.65               | 346.39          | 08/06/92                  | 07:49 | 6.71               | 346.15          |
|                                                                                     |                           | 08:35 | 19.50              | 345.16          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 08:58 | 19.48              | 345.18          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 09:15 | 19.47              | 345.19          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 09:35 | 19.45              | 345.21          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 09:58 | 19.44              | 345.22          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 11:34 | 19.33              | 345.33          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 13:16 | 19.22              | 345.44          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 14:55 | 19.18              | 345.48          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 16:43 | 19.10              | 345.56          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 19:18 | 18.81              | 345.85          |                           |       |                    |                 |                           |       |                    |                 |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off intermittently<br><br>K-2/M-2 off | 08/07/92                  | 07:43 | 18.12              | 346.54          | 08/07/92                  | 11:54 | 5.83               | 348.21          | 08/07/92                  | 11:54 | 5.29               | 347.57          |
|                                                                                     |                           | 11:46 | 17.89              | 346.77          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 12:42 | 17.89              | 346.77          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 12:59 | 17.88              | 346.78          |                           | 15:04 | 5.84               | 348.20          |                           | 15:03 | 5.32               | 347.54          |
|                                                                                     |                           | 14:54 | 17.79              | 346.87          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     | 08/08/92                  | 11:34 | 16.87              | 347.79          | 08/08/92                  |       |                    |                 | 08/08/92                  |       |                    |                 |
|                                                                                     |                           | 16:59 | 16.65              | 348.01          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     | 08/09/92                  | 13:36 | 15.87              | 348.79          | 08/09/92                  |       |                    |                 | 08/09/92                  |       |                    |                 |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                 | 08/10/92                  | 08:55 | 15.27              | 349.39          | 08/10/92                  |       |                    |                 | 08/10/92                  |       |                    |                 |
|                                                                                     |                           | 09:11 | 15.30              | 349.36          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 09:30 | 15.32              | 349.34          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 09:51 | 15.35              | 349.31          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 10:07 | 15.34              | 349.32          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 10:30 | 15.34              | 349.32          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 12:05 | 15.28              | 349.38          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 13:08 | 15.41              | 349.25          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 13:46 | 15.42              | 349.24          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 15:27 | 15.46              | 349.20          |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                     |                           | 17:01 | 15.47              | 349.19          |                           |       |                    |                 |                           |       |                    |                 |

| notes                                                                             | GW-1<br>MPE = 364.66 famsl |       |                    |                 | GW-2<br>MPE = 354.04 famsl |       |                    |                 | GW-4<br>MPE = 352.86 famsl |          |                    |                 |
|-----------------------------------------------------------------------------------|----------------------------|-------|--------------------|-----------------|----------------------------|-------|--------------------|-----------------|----------------------------|----------|--------------------|-----------------|
|                                                                                   | date                       | time  | water level (fbmp) | water elevation | date                       | time  | water level (fbmp) | water elevation | date                       | time     | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                   | 07:16 | 15.40              | 349.26          | 08/11/92                   |       |                    |                 | 08/11/92                   |          |                    |                 |
|                                                                                   |                            | 13:12 | 15.37              | 349.29          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   | 08/12/92                   | 18:15 | 15.46              | 349.20          |                            |       |                    |                 |                            | 08/12/92 |                    |                 |
|                                                                                   |                            | 07:02 | 15.57              | 349.09          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 13:07 | 15.61              | 349.05          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 19:12 | 15.60              | 349.06          |                            |       |                    |                 |                            |          |                    |                 |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                   | 06:42 | 15.64              | 349.02          | 08/13/92                   |       |                    |                 | 08/13/92                   |          |                    |                 |
|                                                                                   |                            | 08:08 | 15.65              | 349.01          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 08:30 | 15.66              | 349.00          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 08:48 | 15.66              | 349.00          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 09:08 | 15.68              | 348.98          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 09:29 | 15.68              | 348.98          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 11:09 | 15.76              | 348.90          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 12:56 | 15.81              | 348.85          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 14:32 | 15.86              | 348.80          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 16:19 | 15.92              | 348.74          |                            |       |                    |                 |                            |          |                    |                 |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                   | 07:26 | 16.28              | 348.38          | 08/14/92                   |       |                    |                 | 08/14/92                   |          |                    |                 |
|                                                                                   |                            | 12:54 | 16.40              | 348.26          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 18:34 | 16.53              | 348.13          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   | 08/15/92                   | 08:38 | 16.87              | 347.79          | 08/15/92                   |       |                    |                 | 08/15/92                   |          |                    |                 |
|                                                                                   |                            | 16:21 | 16.92              | 347.74          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   | 08/16/92                   | 10:15 | 17.15              | 347.51          | 08/16/92                   |       |                    |                 | 08/16/92                   |          |                    |                 |
|                                                                                   |                            | 18:02 | 17.26              | 347.40          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   | 08/17/92                   | 10:04 | 17.45              | 347.21          | 08/17/92                   |       |                    |                 | 08/17/92                   |          |                    |                 |
|                                                                                   |                            | 18:19 | 17.49              | 347.17          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   | 08/18/92                   | 09:06 | 17.60              | 347.06          | 08/18/92                   |       |                    |                 | 08/18/92                   |          |                    |                 |
|                                                                                   |                            | 12:11 | 17.62              | 347.04          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 19:49 | 17.68              | 346.98          |                            |       |                    |                 |                            |          |                    |                 |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                   | 08:07 | 17.78              | 346.88          | 08/19/92                   | 08:16 | 6.93               | 347.11          | 08/19/92                   | 08:15    | 6.88               | 345.98          |
|                                                                                   |                            | 12:13 | 17.81              | 346.85          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 16:40 | 17.83              | 346.83          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   | 08/20/92                   | 19:01 | 17.87              | 346.79          | 08/20/92                   | 09:26 | 7.17               | 346.87          | 08/20/92                   | 09:24    | 7.18               | 345.68          |
|                                                                                   |                            | 09:14 | 17.99              | 346.67          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 14:34 | 18.04              | 346.62          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   | 08/21/92                   | 19:41 | 18.08              | 346.58          | 08/21/92                   | 19:28 | 7.25               | 346.79          | 08/21/92                   | 19:30    | 7.29               | 345.57          |
|                                                                                   |                            | 09:10 | 18.22              | 346.44          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            | 15:28 | 18.25              | 346.41          |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   | 08/22/92                   | 17:26 | 18.51              | 346.15          | 08/22/92                   | 17:35 | 7.59               | 346.45          | 08/22/92                   | 17:34    | 7.72               | 345.14          |
|                                                                                   |                            |       |                    |                 |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            |       |                    |                 |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            |       |                    |                 |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            |       |                    |                 |                            |       |                    |                 |                            |          |                    |                 |
|                                                                                   |                            |       |                    |                 |                            |       |                    |                 |                            |          |                    |                 |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

| notes                                                                               | D-1<br>MPE = 359.10 fmsl |                |                    |                 | D-2<br>MPE = 351.26 fmsl |          |                    |                 | D-3<br>MPE = 353.79 fmsl |                |                    |                 |
|-------------------------------------------------------------------------------------|--------------------------|----------------|--------------------|-----------------|--------------------------|----------|--------------------|-----------------|--------------------------|----------------|--------------------|-----------------|
|                                                                                     | date                     | time           | water level (fbmp) | water elevation | date                     | time     | water level (fbmp) | water elevation | date                     | time           | water level (fbmp) | water elevation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                     | 08/03/92                 | 08:07          | 15.30              | 343.80          | 08/03/92                 | 08:13    | 7.50               | 343.76          | 08/03/92                 | 08:27          | 12.72              | 341.07          |
|                                                                                     |                          | 12:17          | 15.30              | 343.80          |                          | 12:21    | 7.50               | 343.76          |                          | 12:21          | 12.68              | 341.11          |
|                                                                                     |                          | 16:25          | 15.30              | 343.80          |                          | 16:29    | 7.52               | 343.74          |                          | 16:25          | 12.67              | 341.12          |
|                                                                                     |                          | 19:05          | 15.27              | 343.83          |                          | 19:09    | 7.52               | 343.74          |                          | 18:58          | 12.04              | 341.75          |
|                                                                                     | 08/04/92                 | 06:25          | 15.22              | 343.88          | 08/04/92                 | 13:28    | 7.09               | 344.17          | 08/04/92                 | 06:40          | 12.50              | 341.29          |
|                                                                                     |                          | 13:30          | 15.18              | 343.92          |                          | 20:08    | 6.68               | 344.58          |                          | 13:35          | 12.40              | 341.39          |
|                                                                                     |                          | 20:05          | 15.11              | 343.99          |                          | 07:50    | 6.50               | 344.76          |                          | 19:56          | 12.32              | 341.47          |
|                                                                                     |                          | 07:46          | 15.01              | 344.09          |                          | 12:42    | 6.51               | 344.75          |                          | 08/05/92 08:00 | 16.20              | 337.59          |
|                                                                                     | 08/05/92                 | 12:39          | 15.00              | 344.10          | 08/05/92                 | 19:23    | 6.52               | 344.74          | 08/05/92                 | 12:30          | 12.50              | 341.29          |
|                                                                                     |                          | 19:26          | 14.95              | 344.15          |                          |          |                    |                 |                          | 19:32          | 12.14              | 341.65          |
|                                                                                     |                          |                |                    |                 |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          |                |                    |                 |                          |          |                    |                 |                          |                |                    |                 |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                         | 08/06/92                 | 07:44          | 14.89              | 344.21          | 08/06/92                 | 07:46    | 6.62               | 344.64          | 08/06/92                 | 07:52          | 12.07              | 341.72          |
|                                                                                     |                          | 08:32          | 14.87              | 344.23          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 08:55          | 14.87              | 344.23          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 09:12          | 14.85              | 344.25          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 09:33          | 14.85              | 344.25          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 09:55          | 14.84              | 344.26          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 11:32          | 14.78              | 344.32          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 13:12          | 14.70              | 344.40          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 14:51          | 14.63              | 344.47          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 16:39          | 14.54              | 344.56          |                          |          |                    |                 |                          |                |                    |                 |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off intermittently<br><br>K-2/M-2 off | 08/07/92                 | 07:40          | 13.69              | 345.41          | 08/07/92                 | 11:52    | 5.70               | 345.56          | 08/07/92                 | 11:44          | 6.93               | 346.86          |
|                                                                                     |                          | 11:49          | 13.41              | 345.69          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 12:39          | 13.36              | 345.74          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 12:56          | 13.34              | 345.76          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     | 08/08/92                 | 14:57          | 13.24              | 345.86          | 08/08/92                 | 15:00    | 5.44               | 345.82          | 08/08/92                 | 14:52          | 7.02               | 346.77          |
|                                                                                     |                          | 11:38          | 12.09              | 347.01          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 16:55          | 11.83              | 347.27          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 08/09/92 13:30 | 10.86              | 348.24          |                          | 08/09/92 |                    |                 |                          | 08/09/92       |                    |                 |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                 | 08/10/92                 | 08:51          | 10.10              | 349.00          | 08/10/92                 |          |                    |                 | 08/10/92                 |                |                    |                 |
|                                                                                     |                          | 09:08          | 10.10              | 349.00          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 09:27          | 10.10              | 349.00          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 09:49          | 10.12              | 348.98          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 10:04          | 10.12              | 348.98          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 10:27          | 10.12              | 348.98          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 12:03          | 10.17              | 348.93          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 13:05          | 10.20              | 348.90          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 13:43          | 10.22              | 348.88          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 15:24          | 10.26              | 348.84          |                          |          |                    |                 |                          |                |                    |                 |
|                                                                                     |                          | 16:58          | 10.32              | 348.78          |                          |          |                    |                 |                          |                |                    |                 |

| notes                                                                             | D-1<br>MPE = 359.10 famsl |       |                    |                 | D-2<br>MPE = 351.26 famsl |          |                    |                 | D-3<br>MPE = 353.79 famsl |       |                    |                 |
|-----------------------------------------------------------------------------------|---------------------------|-------|--------------------|-----------------|---------------------------|----------|--------------------|-----------------|---------------------------|-------|--------------------|-----------------|
|                                                                                   | date                      | time  | water level (fbmp) | water elevation | date                      | time     | water level (fbmp) | water elevation | date                      | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                  | 07:22 | 10.32              | 348.78          | 08/11/92                  |          |                    |                 | 08/11/92                  |       |                    |                 |
|                                                                                   |                           | 13:09 | 10.22              | 348.88          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   | 08/12/92                  | 18:12 | 10.34              | 348.76          |                           | 08/12/92 |                    |                 | 08/12/92                  |       |                    |                 |
|                                                                                   |                           | 07:06 | 10.53              | 348.57          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 13:03 | 10.56              | 348.54          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 19:08 | 10.57              | 348.53          |                           |          |                    |                 |                           |       |                    |                 |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                  | 06:38 | 10.62              | 348.48          | 08/13/92                  |          |                    |                 | 08/13/92                  |       |                    |                 |
|                                                                                   |                           | 08:05 | 10.63              | 348.47          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 08:27 | 10.64              | 348.46          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 08:45 | 10.64              | 348.46          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 09:09 | 10.65              | 348.45          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 09:25 | 10.66              | 348.44          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 11:05 | 10.70              | 348.40          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 12:53 | 10.77              | 348.33          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 14:29 | 10.83              | 348.27          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 16:15 | 10.87              | 348.23          |                           |          |                    |                 |                           |       |                    |                 |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                  | 07:31 | 11.28              | 347.82          | 08/14/92                  |          |                    |                 | 08/14/92                  |       |                    |                 |
|                                                                                   |                           | 12:48 | 11.42              | 347.68          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 18:38 | 11.55              | 347.55          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   | 08/15/92                  | 08:33 | 11.90              | 347.20          | 08/15/92                  |          |                    |                 | 08/15/92                  |       |                    |                 |
|                                                                                   |                           | 16:18 | 12.07              | 347.03          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   | 08/16/92                  | 10:10 | 12.35              | 346.75          | 08/16/92                  |          |                    |                 | 08/16/92                  |       |                    |                 |
|                                                                                   |                           | 18:05 | 12.47              | 346.63          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   | 08/17/92                  | 10:10 | 12.70              | 346.40          | 08/17/92                  |          |                    |                 | 08/17/92                  |       |                    |                 |
|                                                                                   |                           | 18:15 | 12.78              | 346.32          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   | 08/18/92                  | 09:10 | 12.88              | 346.22          | 08/18/92                  |          |                    |                 | 08/18/92                  |       |                    |                 |
|                                                                                   |                           | 12:07 | 12.91              | 346.19          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 19:45 | 12.97              | 346.13          |                           |          |                    |                 |                           |       |                    |                 |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                  | 08:10 | 13.08              | 346.02          | 08/19/92                  | 08:13    | 5.69               | 345.57          | 08/19/92                  | 08:08 | 10.53              | 343.26          |
|                                                                                   |                           | 12:15 | 13.11              | 345.99          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 16:44 | 13.15              | 345.95          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   | 08/20/92                  | 19:06 | 13.18              | 345.92          | 08/20/92                  | 09:20    | 5.93               | 345.33          | 08/20/92                  | 09:12 | 10.86              | 342.93          |
|                                                                                   |                           | 14:38 | 12.37              | 346.73          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 19:37 | 12.40              | 346.70          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 09:04 | 12.54              | 346.56          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           | 15:20 | 12.58              | 346.52          |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   | 08/21/92                  | 17:29 | 12.79              | 346.31          | 08/21/92                  | 09:01    | 6.12               | 345.14          | 08/21/92                  | 09:12 | 11.15              | 342.64          |
|                                                                                   |                           |       |                    |                 |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   | 08/22/92                  |       |                    |                 | 08/22/92                  | 17:31    | 6.36               | 344.90          | 08/22/92                  | 17:25 | 11.46              | 342.33          |
|                                                                                   |                           |       |                    |                 |                           |          |                    |                 |                           |       |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |          |                    |                 |                           |       |                    |                 |

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NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

| notes                                                                                  | D-4<br>MPE = 359.48 famsl |       |                          |                         | D-5<br>MPE = 359.97 famsl |       |                          |                         | D-6<br>MPE = 352.80 famsl |       |                          |                         |
|----------------------------------------------------------------------------------------|---------------------------|-------|--------------------------|-------------------------|---------------------------|-------|--------------------------|-------------------------|---------------------------|-------|--------------------------|-------------------------|
|                                                                                        | date                      | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                      | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation | date                      | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                  | 08:06 | 15.16                    | 344.32                  | 08/03/92                  | 08:03 | 14.56                    | 345.41                  | 08/03/92                  | 08:09 | >7.51                    | <345.29                 |
|                                                                                        |                           | 12:16 | 15.17                    | 344.31                  |                           | 12:15 | 14.56                    | 345.41                  |                           | 12:18 | >7.51                    | <345.29                 |
|                                                                                        |                           | 16:24 | 15.16                    | 344.32                  |                           | 16:23 | 14.56                    | 345.41                  |                           | 16:29 | >7.51                    | <345.29                 |
|                                                                                        |                           | 19:03 | 15.15                    | 344.33                  |                           | 19:02 | 14.54                    | 345.43                  |                           | 19:07 | >7.51                    | <345.29                 |
|                                                                                        | 08/04/92                  | 06:24 | 15.08                    | 344.40                  | 08/04/92                  | 06:22 | 14.50                    | 345.47                  | 08/04/92                  | 06:28 | >7.51                    | <345.29                 |
|                                                                                        |                           | 13:31 | 15.04                    | 344.44                  |                           | 13:32 | 14.54                    | 345.43                  |                           | 13:39 | >7.51                    | <345.29                 |
|                                                                                        |                           | 20:03 | 14.99                    | 344.49                  |                           | 20:01 | 14.44                    | 345.53                  |                           | 20:07 | >7.51                    | <345.29                 |
|                                                                                        | 08/05/92                  | 12:36 | 14.87                    | 344.61                  | 08/05/92                  | 07:41 | 14.38                    | 345.59                  | 08/05/92                  | 07:49 | >7.51                    | <345.29                 |
|                                                                                        |                           | 19:28 | 14.84                    | 344.64                  |                           | 12:34 | 14.35                    | 345.62                  |                           | 12:40 | >7.51                    | <345.29                 |
|                                                                                        |                           |       |                          |                         |                           | 19:29 | 14.28                    | 345.69                  |                           | 19:24 | >7.51                    | <345.29                 |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                  | 07:43 | 14.77                    | 344.71                  | 08/06/92                  | 07:42 | 14.25                    | 345.72                  | 08/06/92                  | 07:45 | >7.51                    | <345.29                 |
|                                                                                        |                           | 08:33 | 14.77                    | 344.71                  |                           | 08:34 | 14.30                    | 345.67                  |                           | 08:36 | >7.51                    | <345.29                 |
|                                                                                        |                           | 08:56 | 14.77                    | 344.71                  |                           | 08:57 | 14.24                    | 345.73                  |                           | 08:59 | >7.51                    | <345.29                 |
|                                                                                        |                           | 09:13 | 14.76                    | 344.72                  |                           | 09:14 | 14.25                    | 345.72                  |                           | 09:16 | >7.51                    | <345.29                 |
|                                                                                        |                           | 09:34 | 14.76                    | 344.72                  |                           | 09:35 | 14.25                    | 345.72                  |                           | 09:37 | >7.51                    | <345.29                 |
|                                                                                        |                           | 09:56 | 14.74                    | 344.74                  |                           | 09:57 | 14.24                    | 345.73                  |                           | 09:59 | >7.51                    | <345.29                 |
|                                                                                        |                           | 11:33 | 14.70                    | 344.78                  |                           | 11:38 | 14.20                    | 345.77                  |                           | 11:30 | >7.51                    | <345.29                 |
|                                                                                        |                           | 13:14 | 14.67                    | 344.81                  |                           | 13:17 | 14.14                    | 345.83                  |                           | 13:11 | >7.51                    | <345.29                 |
|                                                                                        |                           | 14:53 | 14.60                    | 344.88                  |                           | 14:58 | 14.08                    | 345.89                  |                           | 14:50 | >7.51                    | <345.29                 |
|                                                                                        |                           | 16:41 | 14.54                    | 344.94                  |                           | 16:45 | 14.02                    | 345.95                  |                           | 16:38 | >7.51                    | <345.29                 |
|                                                                                        |                           | 19:16 | 14.43                    | 345.05                  |                           | 19:17 | 13.88                    | 346.09                  |                           | 19:20 | >7.51                    | <345.29                 |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                  | 07:41 | 13.92                    | 345.56                  | 08/07/92                  | 07:42 | 13.38                    | 346.59                  | 08/07/92                  | 11:51 | >7.51                    | <345.29                 |
|                                                                                        |                           | 11:48 | 13.72                    | 345.76                  |                           | 11:47 | 13.19                    | 346.78                  |                           | 12:38 | 6.82                     | 345.98                  |
|                                                                                        |                           | 12:40 | 13.69                    | 345.79                  |                           | 12:41 | 13.16                    | 346.81                  |                           | 12:55 | 6.82                     | 345.98                  |
|                                                                                        |                           | 12:57 | 13.68                    | 345.80                  |                           | 12:58 | 13.14                    | 346.83                  |                           |       |                          |                         |
|                                                                                        |                           | 14:57 | 13.59                    | 345.89                  |                           | 14:56 | 13.07                    | 346.90                  |                           | 14:59 | 6.71                     | 346.09                  |
|                                                                                        | 08/08/92                  | 11:37 | 12.62                    | 346.86                  | 08/08/92                  | 11:35 | 12.26                    | 347.71                  | 08/08/92                  | 11:39 | 5.49                     | 347.31                  |
|                                                                                        |                           | 16:56 | 12.37                    | 347.11                  |                           | 16:58 | 12.08                    | 347.89                  |                           | 17:00 | 5.25                     | 347.55                  |
|                                                                                        | 08/09/92                  | 13:32 | 11.45                    | 348.03                  | 08/09/92                  | 13:34 | 11.35                    | 348.62                  | 08/09/92                  | 13:28 | 4.40                     | 348.40                  |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                  | 08:52 | 10.75                    | 348.73                  | 08/10/92                  | 08:53 | 10.75                    | 349.22                  | 08/10/92                  | 08:50 | 3.76                     | 349.04                  |
|                                                                                        |                           | 09:09 | 10.74                    | 348.74                  |                           | 09:10 | 10.73                    | 349.24                  |                           | 09:13 | 3.79                     | 349.01                  |
|                                                                                        |                           | 09:28 | 10.73                    | 348.75                  |                           | 09:29 | 10.74                    | 349.23                  |                           | 09:27 | 3.82                     | 348.98                  |
|                                                                                        |                           | 09:50 | 10.72                    | 348.76                  |                           | 09:51 | 10.72                    | 349.25                  |                           | 09:48 | 3.90                     | 348.90                  |
|                                                                                        |                           | 10:05 | 10.72                    | 348.76                  |                           | 10:06 | 10.73                    | 349.24                  |                           | 10:04 | 3.93                     | 348.87                  |
|                                                                                        |                           | 10:28 | 10.71                    | 348.77                  |                           | 10:29 | 10.72                    | 349.25                  |                           | 10:30 | 4.00                     | 348.80                  |
|                                                                                        |                           | 12:04 | 10.70                    | 348.78                  |                           | 12:04 | 10.71                    | 349.26                  |                           | 12:02 | 4.17                     | 348.63                  |
|                                                                                        |                           | 13:07 | 10.69                    | 348.79                  |                           | 13:09 | 10.70                    | 349.27                  |                           | 13:06 | 4.25                     | 348.55                  |
|                                                                                        |                           | 13:44 | 10.69                    | 348.79                  |                           | 13:46 | 10.70                    | 349.27                  |                           | 13:48 | 4.28                     | 348.52                  |
|                                                                                        |                           | 15:25 | 10.70                    | 348.78                  |                           | 15:26 | 10.70                    | 349.27                  |                           | 15:28 | 4.36                     | 348.44                  |
|                                                                                        |                           | 16:59 | 10.71                    | 348.77                  |                           | 17:00 | 10.70                    | 349.27                  |                           | 17:02 | 4.44                     | 348.36                  |



| notcs                                                                             | D-4<br>MPE = 359.48 famsl |       |                    |                 | D-5<br>MPE = 359.97 famsl |       |                    |                 | D-6<br>MPE = 352.80 famsl |       |                    |                 |
|-----------------------------------------------------------------------------------|---------------------------|-------|--------------------|-----------------|---------------------------|-------|--------------------|-----------------|---------------------------|-------|--------------------|-----------------|
|                                                                                   | date                      | time  | water level (fbmp) | water elevation | date                      | time  | water level (fbmp) | water elevation | date                      | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                  | 07:21 | 10.73              | 348.75          | 08/11/92                  | 07:18 | 10.66              | 349.31          | 08/11/92                  | 07:23 | 4.19               | 348.61          |
|                                                                                   |                           | 13:10 | 10.60              | 348.88          |                           | 13:11 | 10.55              | 349.42          |                           | 13:14 | 4.29               | 348.51          |
|                                                                                   | 08/12/92                  | 18:13 | 10.65              | 348.83          | 08/12/92                  | 18:17 | 10.57              | 349.40          | 08/12/92                  | 18:10 | 4.50               | 348.30          |
|                                                                                   |                           | 07:05 | 10.75              | 348.73          |                           | 07:03 | 10.61              | 349.36          |                           | 07:09 | 4.69               | 348.11          |
|                                                                                   |                           | 13:05 | 10.78              | 348.70          |                           | 13:06 | 10.62              | 349.35          |                           | 13:09 | 4.70               | 348.10          |
|                                                                                   |                           | 19:09 | 10.77              | 348.71          |                           | 19:10 | 10.60              | 349.37          |                           | 19:06 | 4.72               | 348.08          |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           |       |                    |                 |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           |       |                    |                 |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                  | 06:39 | 10.81              | 348.67          | 08/13/92                  | 06:40 | 10.63              | 349.34          | 08/13/92                  | 06:37 | 4.77               | 348.03          |
|                                                                                   |                           | 08:06 | 10.81              | 348.67          |                           | 08:07 | 10.63              | 349.34          |                           | 08:09 | 8.80               | 344.00          |
|                                                                                   |                           | 08:28 | 10.82              | 348.66          |                           | 08:29 | 10.63              | 349.34          |                           | 08:27 | 8.82               | 343.98          |
|                                                                                   |                           | 08:46 | 10.83              | 348.65          |                           | 08:47 | 10.63              | 349.34          |                           | 08:49 | 4.84               | 347.96          |
|                                                                                   |                           | 09:06 | 10.83              | 348.65          |                           | 09:07 | 10.63              | 349.34          |                           | 09:05 | 4.87               | 347.93          |
|                                                                                   |                           | 09:27 | 10.83              | 348.65          |                           | 09:28 | 10.64              | 349.33          |                           | 09:26 | 4.90               | 347.90          |
|                                                                                   | 08/14/92                  | 11:07 | 10.88              | 348.60          | 08/14/92                  | 11:08 | 10.66              | 349.31          | 08/14/92                  | 11:06 | 5.01               | 347.79          |
|                                                                                   |                           | 12:54 | 10.92              | 348.56          |                           | 12:55 | 10.69              | 349.28          |                           | 12:57 | 5.11               | 347.69          |
|                                                                                   |                           | 14:31 | 10.97              | 348.51          |                           | 14:32 | 10.73              | 349.24          |                           | 14:30 | 5.19               | 347.61          |
|                                                                                   |                           | 16:17 | 11.00              | 348.48          |                           | 16:18 | 10.76              | 349.21          |                           | 16:16 | 5.25               | 347.55          |
|                                                                                   | 08/13/92                  | 19:15 | 11.08              | 348.40          | 08/13/92                  | 19:20 | 10.84              | 349.13          | 08/13/92                  | 19:14 | 5.37               | 347.43          |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                  | 07:30 | 11.34              | 348.14          | 08/14/92                  | 07:29 | 11.07              | 348.90          | 08/14/92                  | 07:32 | 5.73               | 347.07          |
|                                                                                   |                           | 12:52 | 11.44              | 348.04          |                           | 12:53 | 11.18              | 348.79          |                           | 12:49 | 4.90               | 347.90          |
|                                                                                   |                           | 18:40 | 11.58              | 347.90          |                           | 18:36 | 11.29              | 348.68          |                           | 18:39 | 6.09               | 346.71          |
|                                                                                   | 08/15/92                  | 08:35 | 11.84              | 347.64          | 08/15/92                  | 08:36 | 11.50              | 348.47          | 08/15/92                  | 08:39 | 6.43               | 346.37          |
|                                                                                   |                           | 16:20 | 11.98              | 347.50          |                           | 16:23 | 1.62               | 358.35          |                           | 16:17 | 6.60               | 346.20          |
|                                                                                   | 08/16/92                  | 10:12 | 12.24              | 347.24          | 08/16/92                  | 10:13 | 11.83              | 348.14          | 08/16/92                  | 10:11 | 6.84               | 345.96          |
|                                                                                   |                           | 18:04 | 12.35              | 347.13          |                           | 18:03 | 11.92              | 348.05          |                           | 18:06 | >7.51              | <345.29         |
|                                                                                   | 08/17/92                  | 10:08 | 12.55              | 346.93          | 08/17/92                  | 10:06 | 12.07              | 347.90          | 08/17/92                  | 10:12 | >7.51              | <345.29         |
|                                                                                   |                           | 18:17 | 112.64             | 246.84          |                           | 18:21 | 12.16              | 347.81          |                           | 18:14 | >7.51              | <345.29         |
|                                                                                   | 08/18/92                  | 09:09 | 12.73              | 346.75          | 08/18/92                  | 09:08 | 12.24              | 347.73          | 08/18/92                  | 09:11 | >7.51              | <345.29         |
|                                                                                   |                           | 12:08 | 12.76              | 346.72          |                           | 12:09 | 12.28              | 347.69          |                           | 12:04 | >7.51              | <345.29         |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                  | 12:15 | 12.95              | 346.53          | 08/19/92                  | 12:14 | 12.44              | 347.53          | 08/19/92                  | 12:12 | >7.51              | <345.29         |
|                                                                                   |                           | 16:43 | 13.01              | 346.47          |                           | 16:41 | 12.49              | 347.48          |                           | 16:40 | >7.51              | <345.29         |
|                                                                                   |                           | 19:05 | 13.02              | 346.46          |                           | 19:03 | 12.52              | 347.45          |                           | 19:09 | >7.51              | <345.29         |
|                                                                                   | 08/20/92                  | 09:17 | 13.14              | 346.34          | 08/20/92                  | 09:15 | 12.63              | 347.34          | 08/20/92                  | 09:20 | >7.51              | <345.29         |
|                                                                                   |                           | 14:37 | 13.19              | 346.29          |                           | 14:36 | 12.67              | 347.30          |                           | 14:39 | >7.51              | <345.29         |
|                                                                                   |                           | 19:38 | 13.23              | 346.25          |                           | 19:39 | 12.71              | 347.26          |                           | 19:34 | >7.51              | <345.29         |
|                                                                                   | 08/21/92                  | 09:06 | 13.37              | 346.11          | 08/21/92                  | 09:08 | 12.82              | 347.15          | 08/21/92                  | 09:02 | >7.51              | <345.29         |
|                                                                                   |                           | 15:21 | 13.40              | 346.08          |                           | 15:27 | 12.87              | 347.10          |                           | 15:30 | >7.51              | <345.29         |
|                                                                                   | 08/22/92                  | 17:28 | 13.61              | 345.87          | 08/22/92                  | 17:27 | 13.06              | 346.91          | 08/22/92                  | 17:31 | >7.51              | <345.29         |
|                                                                                   |                           |       |                    |                 |                           |       |                    |                 |                           |       |                    |                 |

F:\PROJ1028151\PT-TST\DATA4.WK1

NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

| notes                                                                                  | D-7<br>MPE = 354.46 fmsl |       |                          |                         |  |  |
|----------------------------------------------------------------------------------------|--------------------------|-------|--------------------------|-------------------------|--|--|
|                                                                                        | date                     | time  | water<br>level<br>(fbmp) | water<br>ele-<br>vation |  |  |
| 08/03 08:00<br>PHASE I START<br><br>K-2/M-2 off                                        | 08/03/92                 | 08:08 | 11.60                    | 342.86                  |  |  |
|                                                                                        |                          | 12:18 | 11.60                    | 342.86                  |  |  |
|                                                                                        |                          | 16:26 | 11.60                    | 342.86                  |  |  |
|                                                                                        |                          | 19:06 | 11.58                    | 342.88                  |  |  |
|                                                                                        | 08/04/92                 | 06:27 | 11.48                    | 342.98                  |  |  |
|                                                                                        |                          | 13:29 | 11.41                    | 343.05                  |  |  |
|                                                                                        |                          | 20:06 | 11.33                    | 343.13                  |  |  |
|                                                                                        | 08/05/92                 | 07:48 | 11.22                    | 343.24                  |  |  |
|                                                                                        |                          | 12:40 | 11.17                    | 343.29                  |  |  |
|                                                                                        |                          | 19:25 | 11.12                    | 343.34                  |  |  |
| 08/06 08:10<br>PHASE II START<br><br>K-1 off<br>K-2/M-2 off                            | 08/06/92                 | 07:45 | 11.08                    | 343.38                  |  |  |
| 08/07 12:15<br>PHASE IIIA START<br><br>K-1 on/off<br>intermittently<br><br>K-2/M-2 off | 08/07/92                 | 11:50 | 8.63                     | 345.83                  |  |  |
|                                                                                        |                          | 14:59 | 8.44                     | 346.02                  |  |  |
|                                                                                        | 08/08/92                 |       |                          |                         |  |  |
|                                                                                        | 08/09/92                 |       |                          |                         |  |  |
| 08/10 08:45<br>PHASE IIIB START<br><br>K-1 on 312gpm<br>K-2/M-2 off                    | 08/10/92                 |       |                          |                         |  |  |

|                                                                                   |                           |       |                    |                 |
|-----------------------------------------------------------------------------------|---------------------------|-------|--------------------|-----------------|
| notes                                                                             | D-7<br>MPE = 354.46 famsl |       |                    |                 |
|                                                                                   | date                      | time  | water level (fbmp) | water elevation |
|                                                                                   | 08/11/92                  |       |                    |                 |
|                                                                                   | 08/12/92                  |       |                    |                 |
| 08/13 07:45<br>PHASE IVA START<br><br>K-1 on 530gpm<br>K-2/M-2 off                | 08/13/92                  |       |                    |                 |
| 08/14 09:00<br>PHASE IVB START<br><br>K-1 on 568gpm<br>K-2/M-2 off                | 08/14/92                  |       |                    |                 |
|                                                                                   | 08/15/92                  |       |                    |                 |
|                                                                                   | 08/16/92                  |       |                    |                 |
|                                                                                   | 08/17/92                  |       |                    |                 |
|                                                                                   | 08/18/92                  |       |                    |                 |
|                                                                                   |                           | 12:05 | 9.17               | 345.29          |
|                                                                                   |                           | 19:44 | 9.24               | 345.22          |
| 08/19 08:00<br>PHASE V START<br><br>K-2 on 45gpm<br>M-2 on 60gpm<br>K-1 on 557gpm | 08/19/92                  |       | 08:11              | 9.35 345.11     |
|                                                                                   |                           | 12:13 | 9.39               | 345.07          |
|                                                                                   |                           | 16:41 | 9.44               | 345.02          |
|                                                                                   |                           | 19:08 | 9.46               | 345.00          |
|                                                                                   | 08/20/92                  | 09:19 | 9.61               | 344.85          |
|                                                                                   |                           | 14:39 | 9.68               | 344.78          |
|                                                                                   |                           | 19:35 | 9.71               | 344.75          |
|                                                                                   | 08/21/92                  | 09:03 | 9.87               | 344.59          |
|                                                                                   |                           | 15:19 | 9.92               | 344.54          |
|                                                                                   | 08/22/92                  | 17:30 | 10.15              | 344.31          |

F:\PROJ\1028151\PTST\DATA4.WK1

NOTES: MPE = Measuring Point Elevation  
fbmp = feet below measuring point  
famsl = feet above mean sea level

## ***APPENDIX C***

### ***Hydrographs***

## HYDROGRAPHS

K-1

K-2

M-2

K-1, K-2, M-2

Background Wells MW-38S, 39S, 5

MW-5

MW-8S

MW-8I, 8D, 50S

MW-10S, 10D, 13D, 14S, 14D, 15D

MW-21S, 21D, 23S, 23D

MW-24S, 24D, 25S, 25D, 50S, 50I

MW-28S, 28I, 28D, USGS-2

MW-29S, 29I, 29D, USGS-2

MW-30S, 30I, 30D, USGS-2

MW-31S, 31I, 31D, USGS-2

MW-30S, 30I, 30D, 31S, 31I, 31D

MW-32D, 34D, 35D, 49S, 49I, 49D

MW-38S, 39S

MW-42S, 43S, 43D

MW-44S, 45S, 45D

MW-46S, 46D, 57S, 57D

MW-46S, 46D, M-1, USGS-1

MW-50S, 50I, 50D, 10S, 10D

MW-57S, 57D, USGS-1, M-1

GW-1, GW-2, GW-4

GW-1, GW-2, D-3

GW-4, D-1, D-2

D-1, D-2, D-3

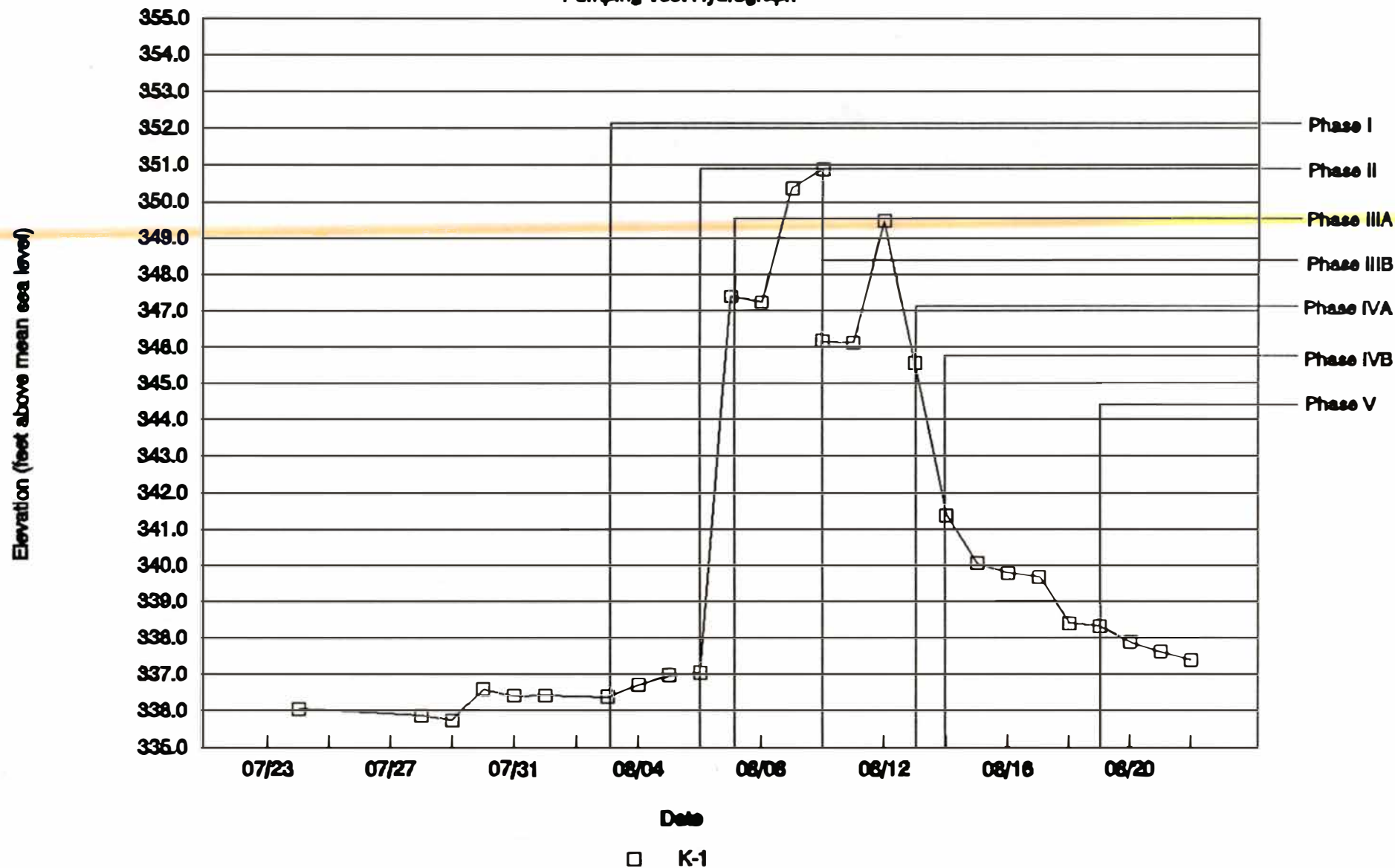
MW-42S, D-3, MW-43S, MW-45S

D-4, D-5, D-6, D-7

USGS-1, M-1, MW-44S, MW-45S, 45D

# K-1

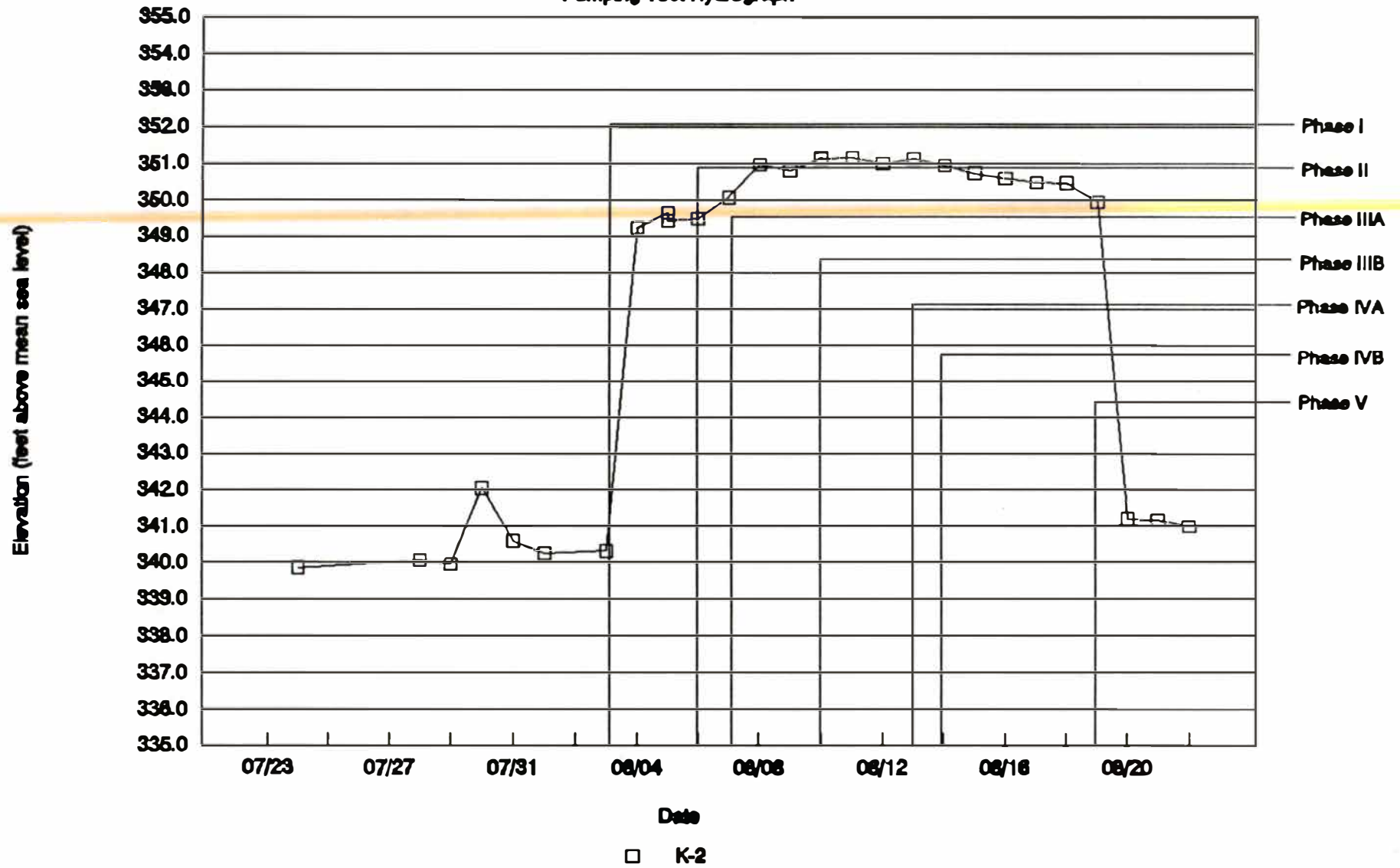
Pumping Test Hydrograph





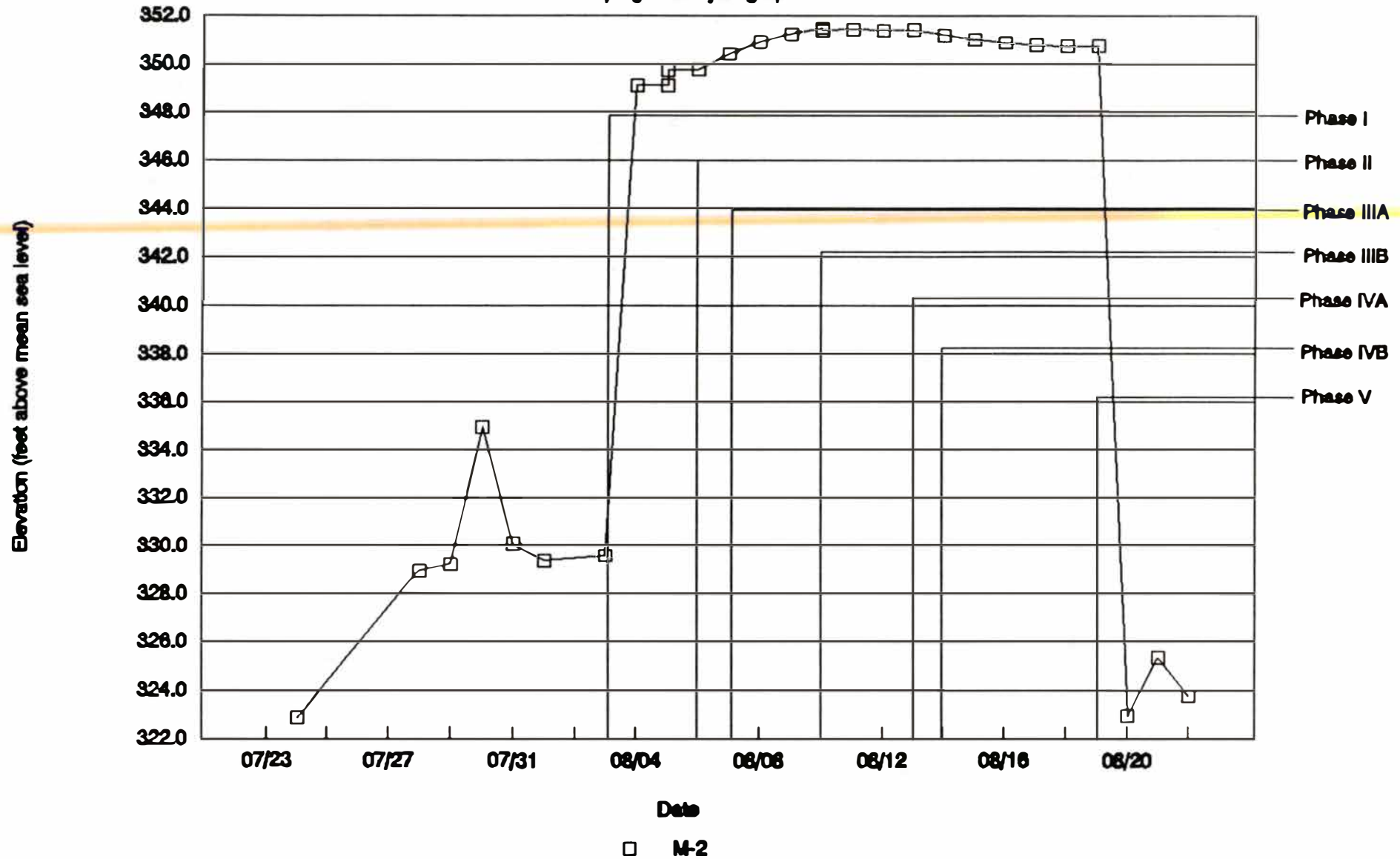
# K-2

Pumping Test Hydrograph



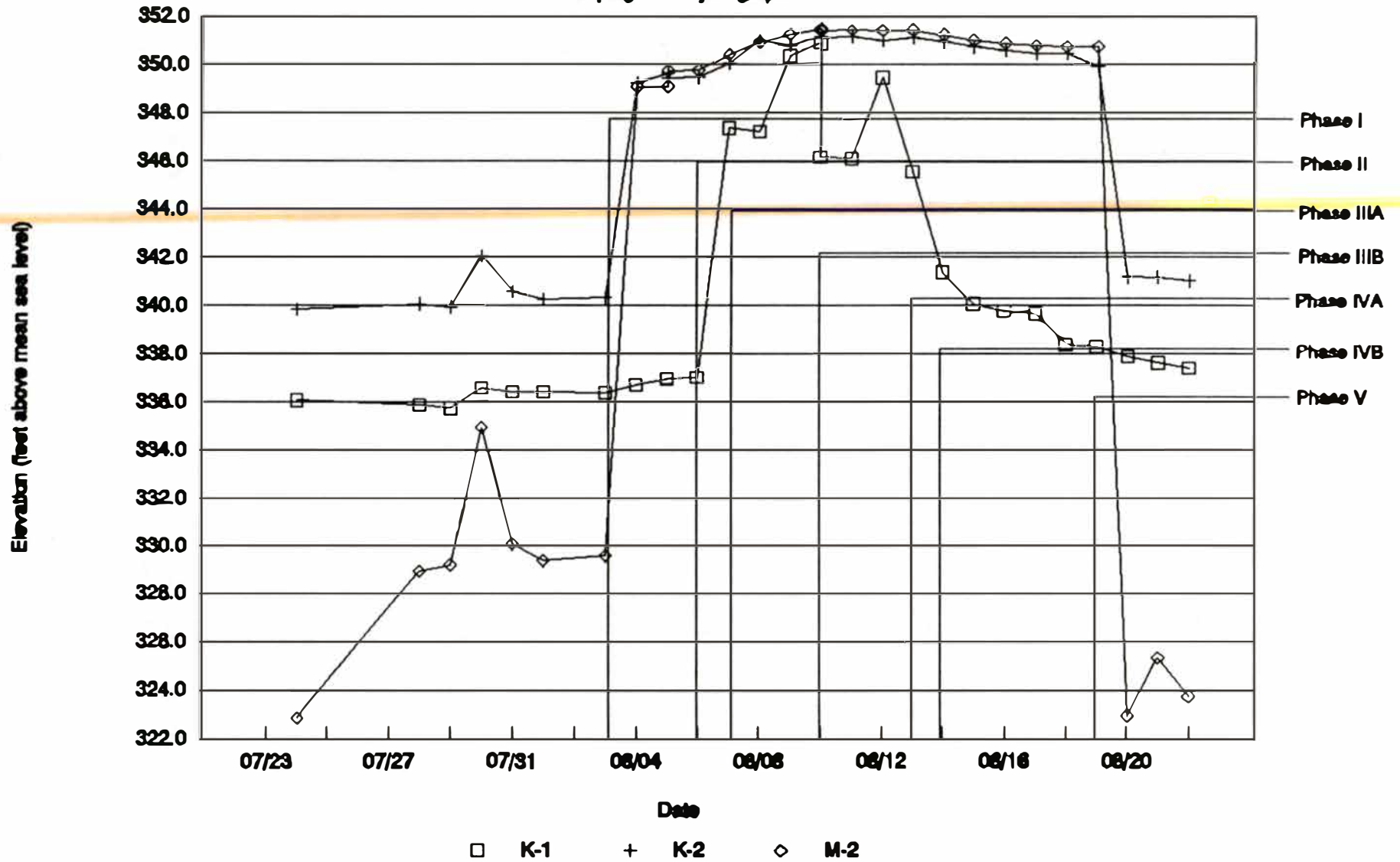
# M-2

Pumping Test Hydrograph



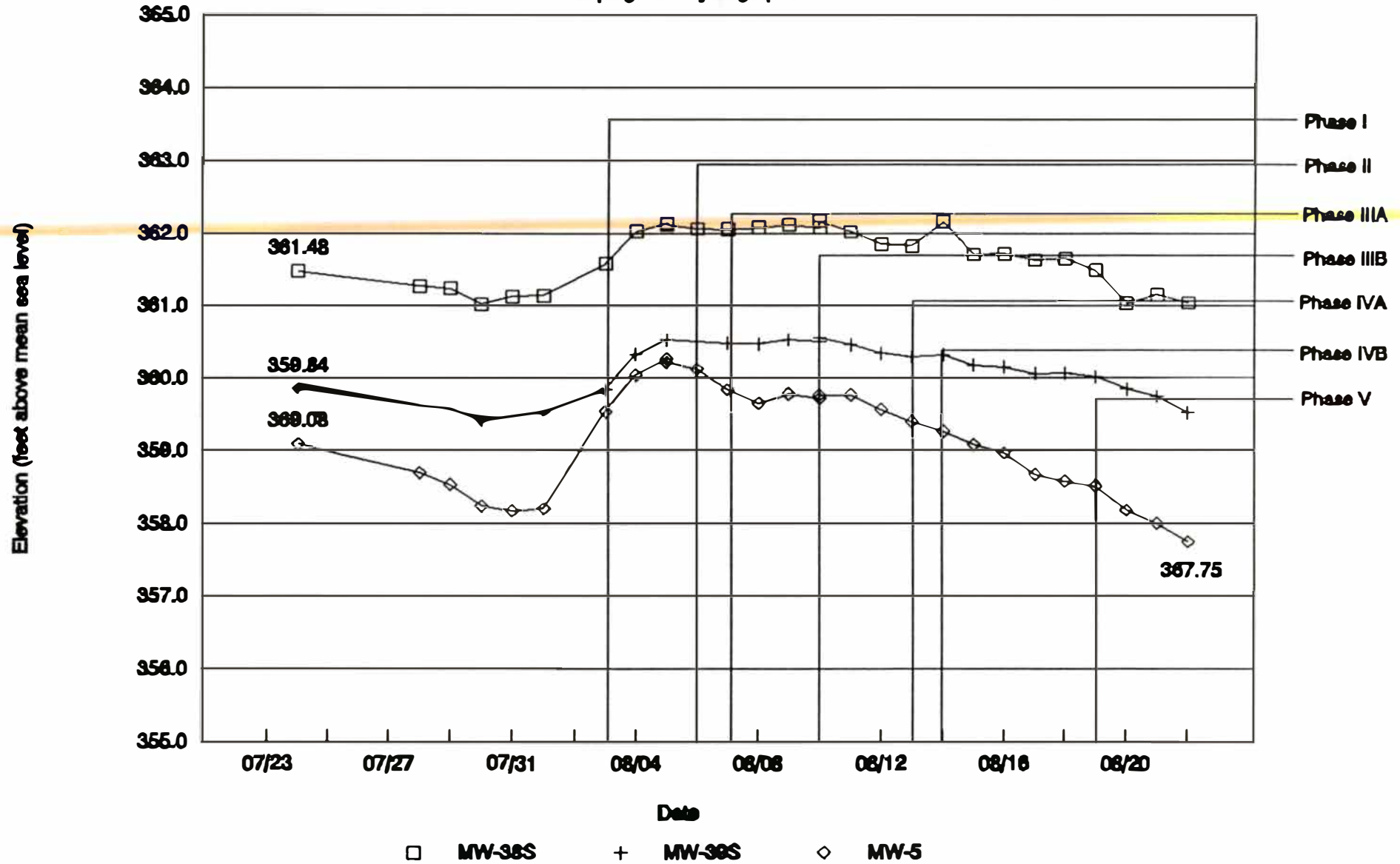
# K-1, K-2, M-2

## Pumping Test Hydrographs



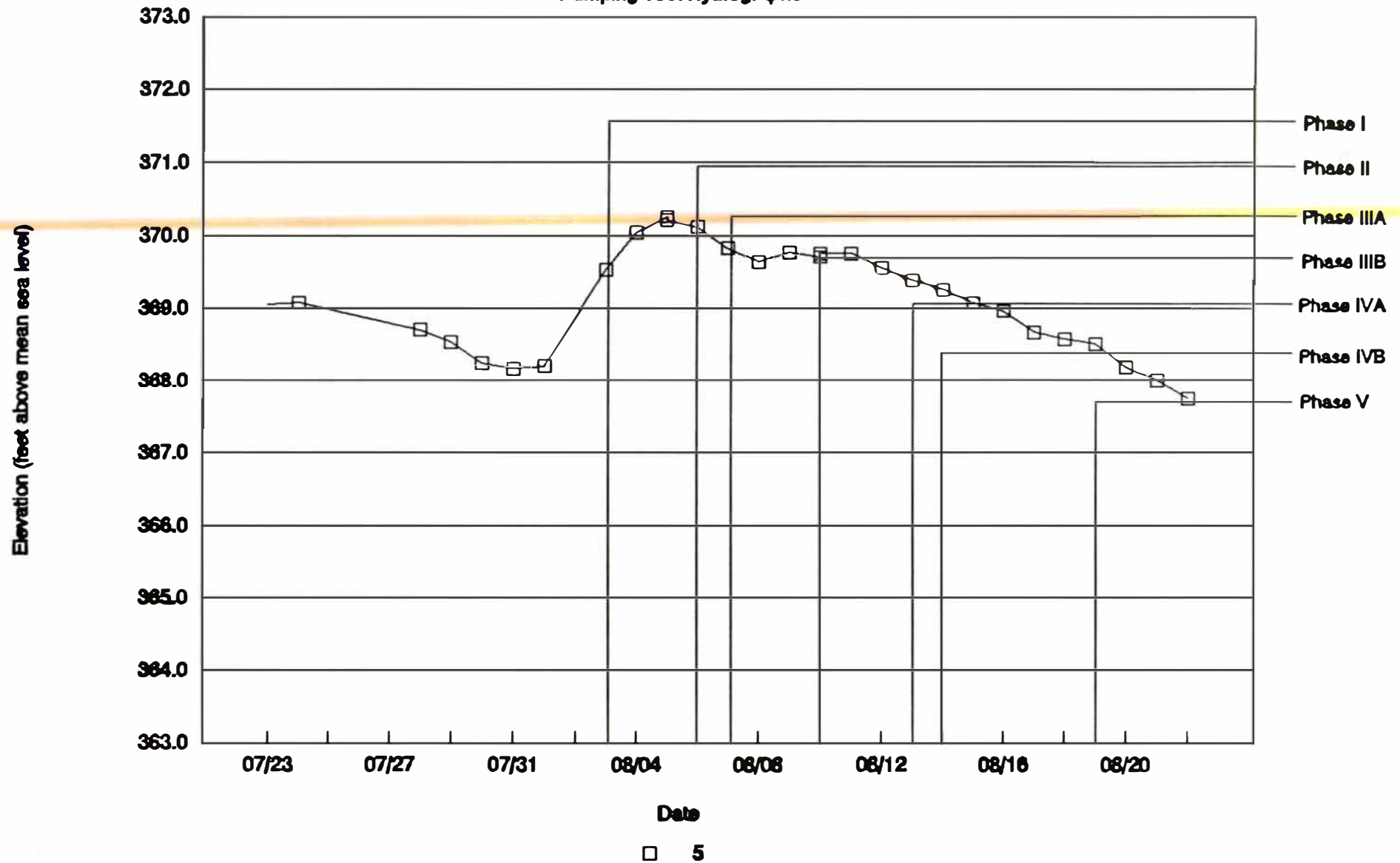
# Background Wells MW-38S, 39S, 5

Pumping Test Hydrographs



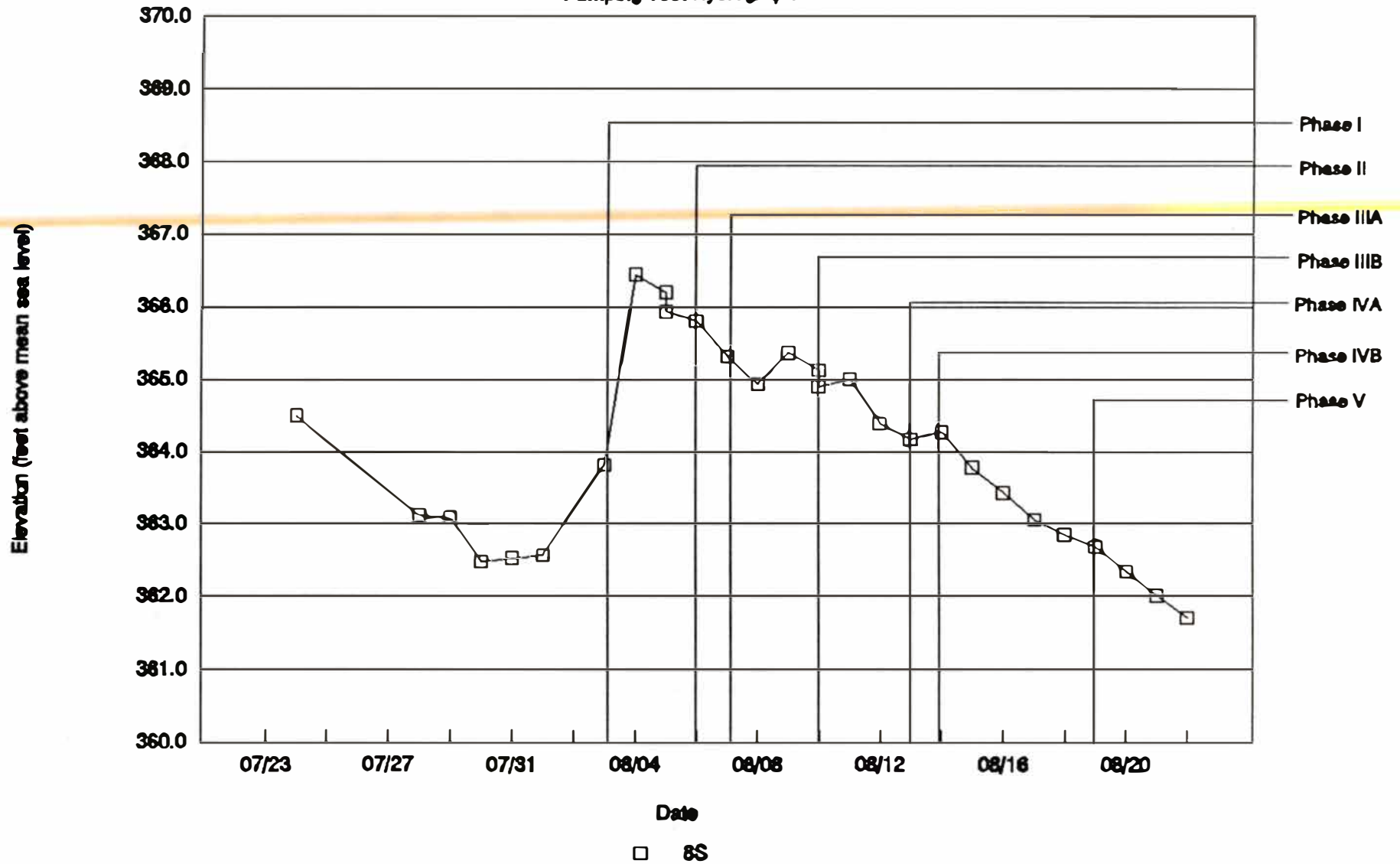
# MW-5

## Pumping Test Hydrographs



# MW-8S

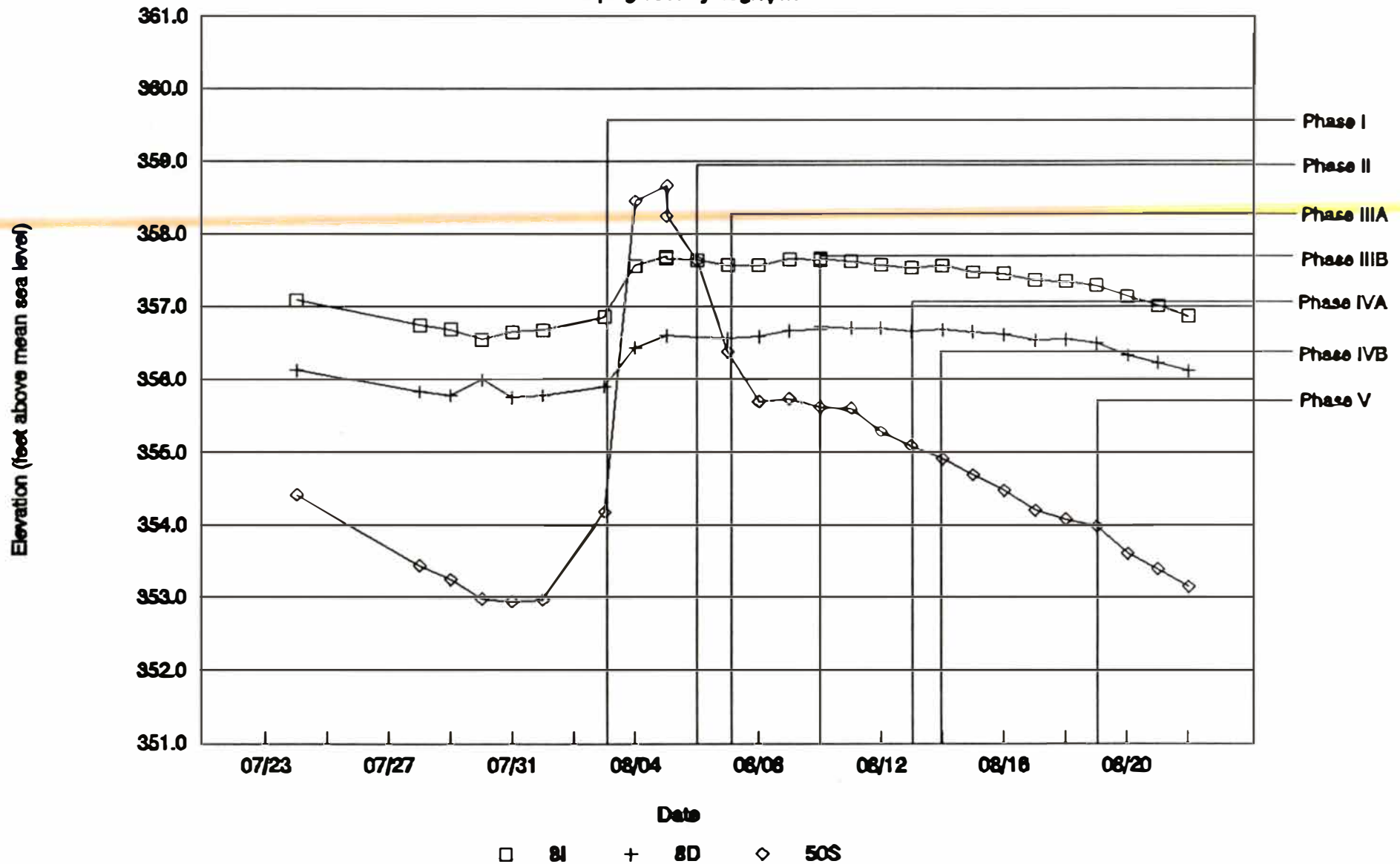
Pumping Test Hydrograph





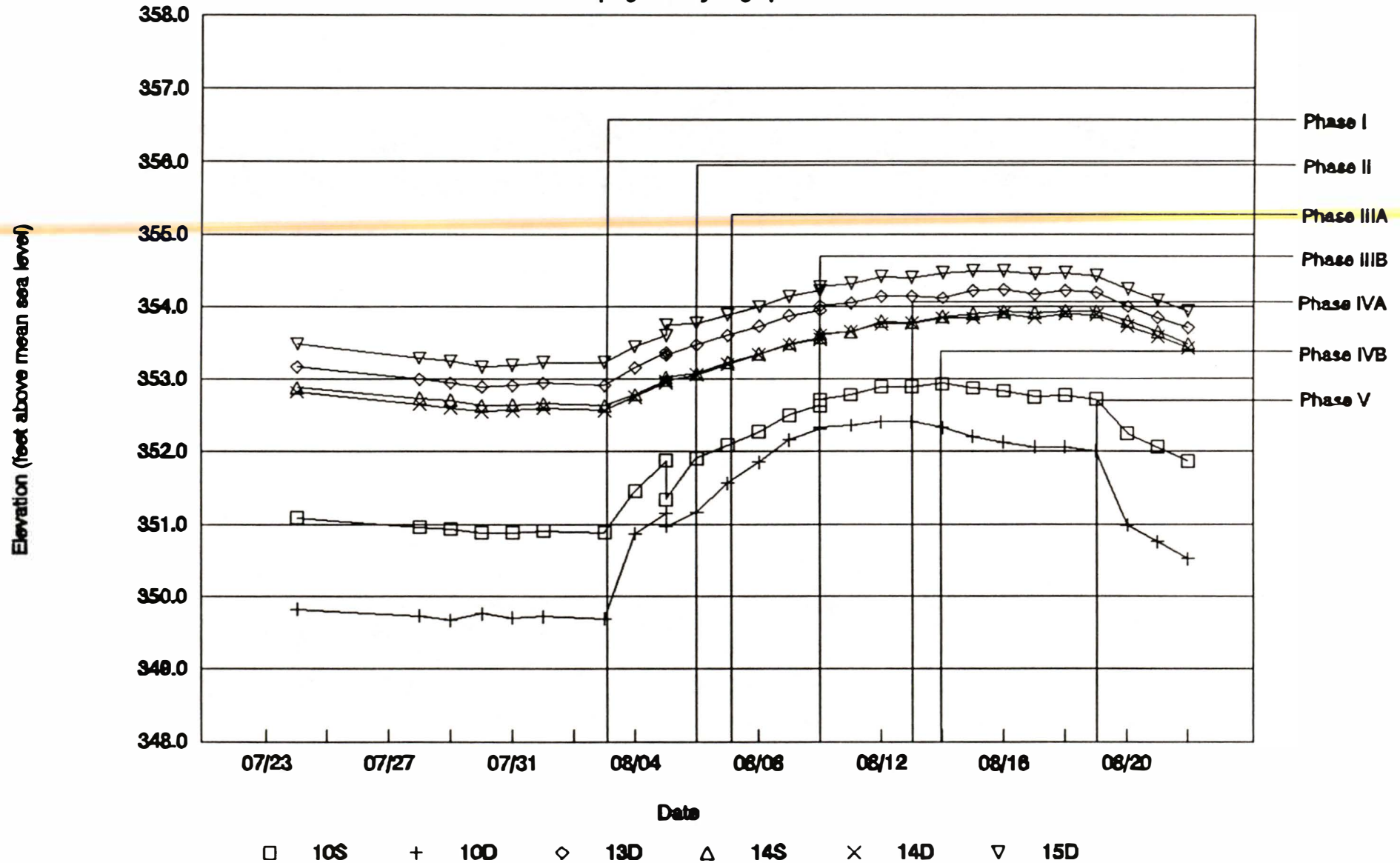
# MW-8I, 8D, 50S

## Pumping Test Hydrographs



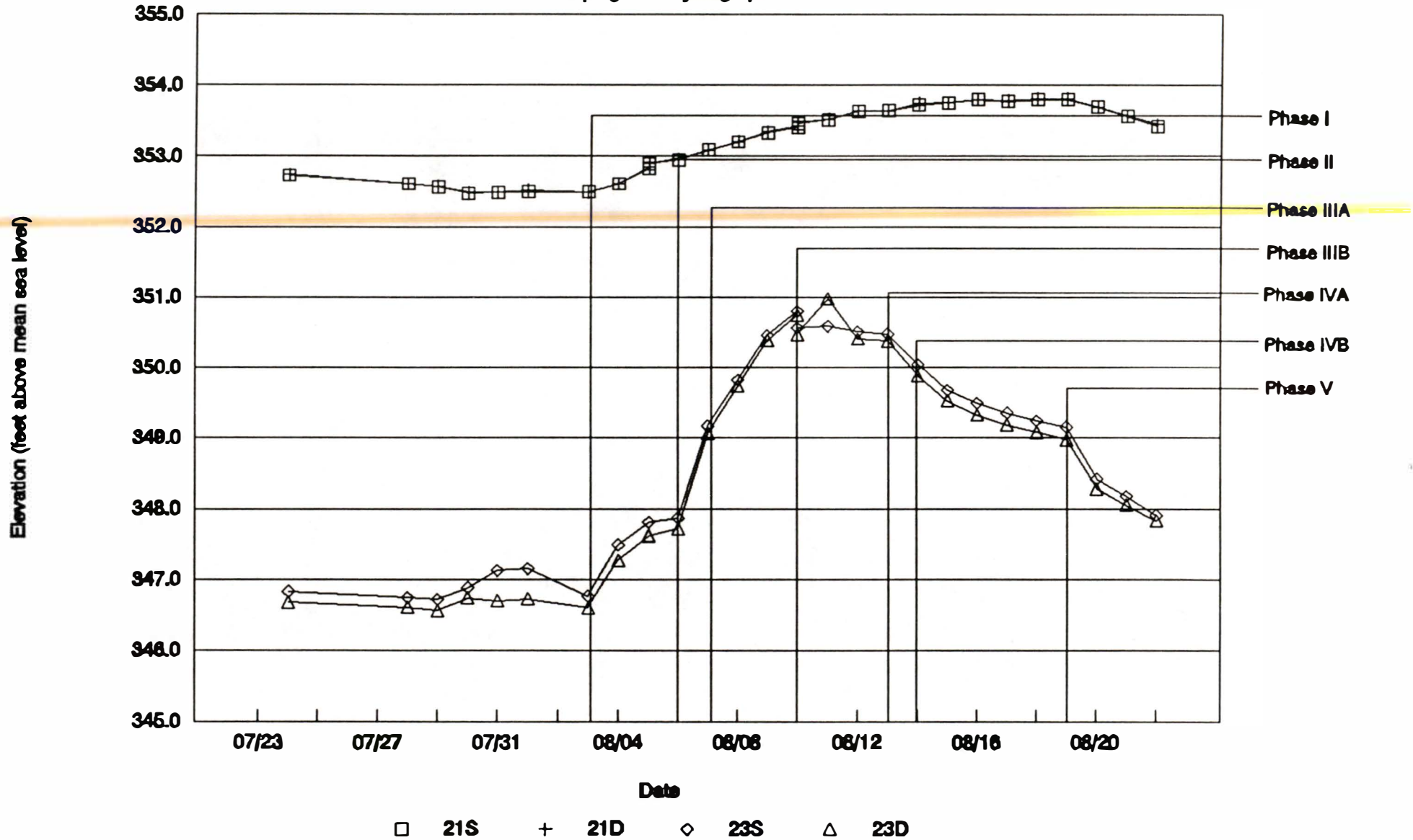
# MW-10S, 10D, 13D, 14S, 14D, 15D

Pumping Test Hydrographs



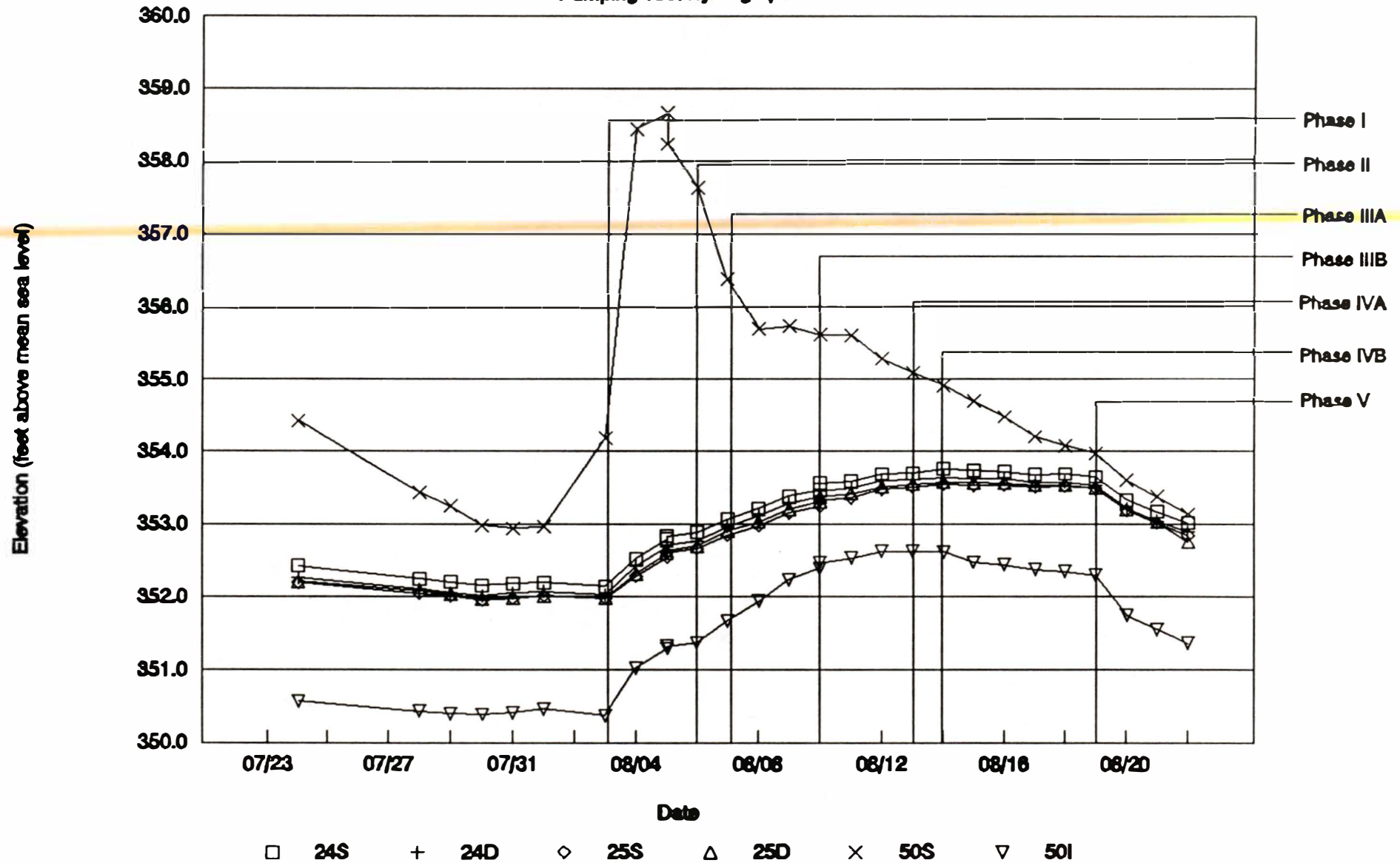
# MW-21S, 21D, 23S, 23D

Pumping Test Hydrographs



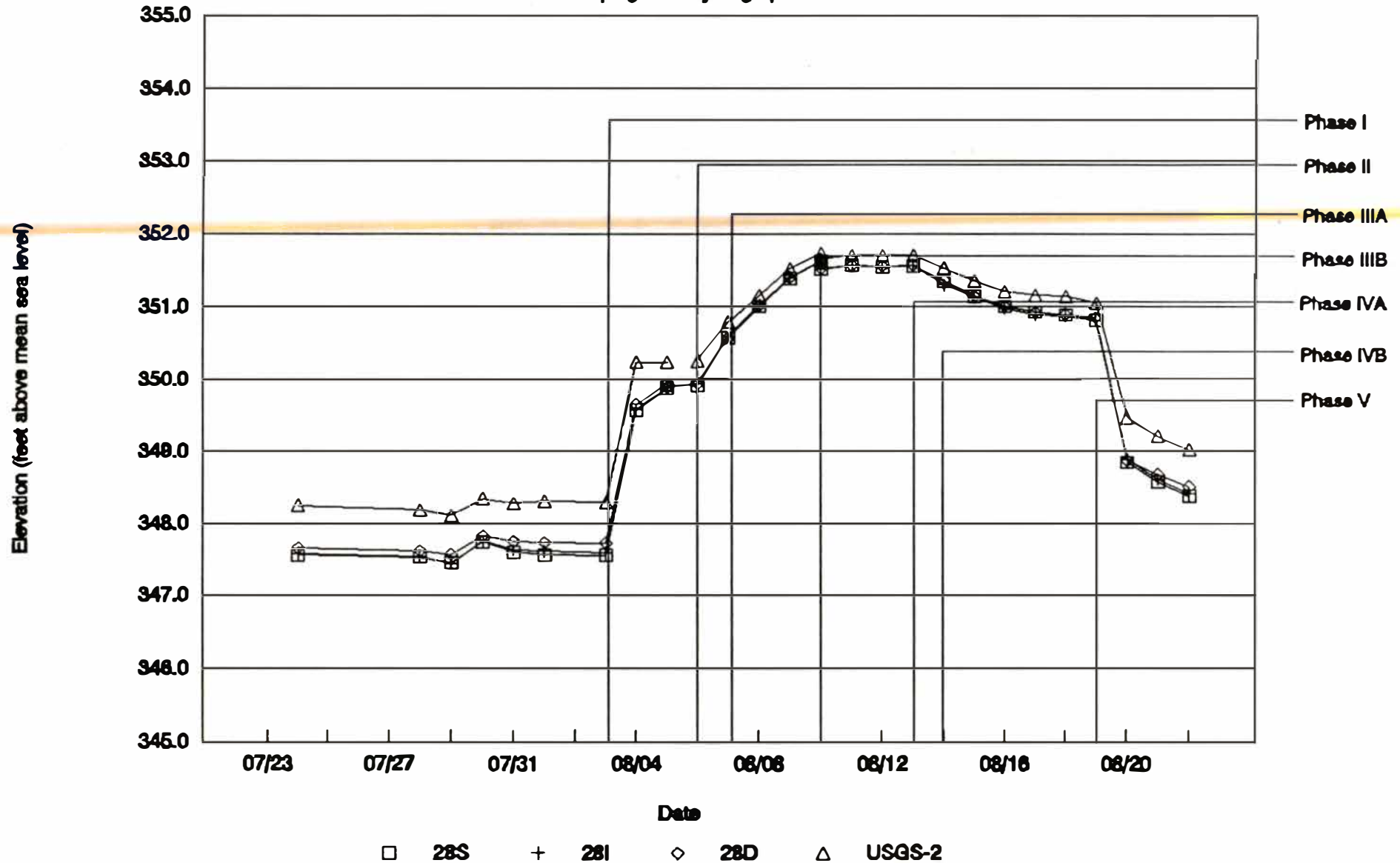
# MW-24S, 24D, 25S, 25D, 50S, 50I

Pumping Test Hydrographs



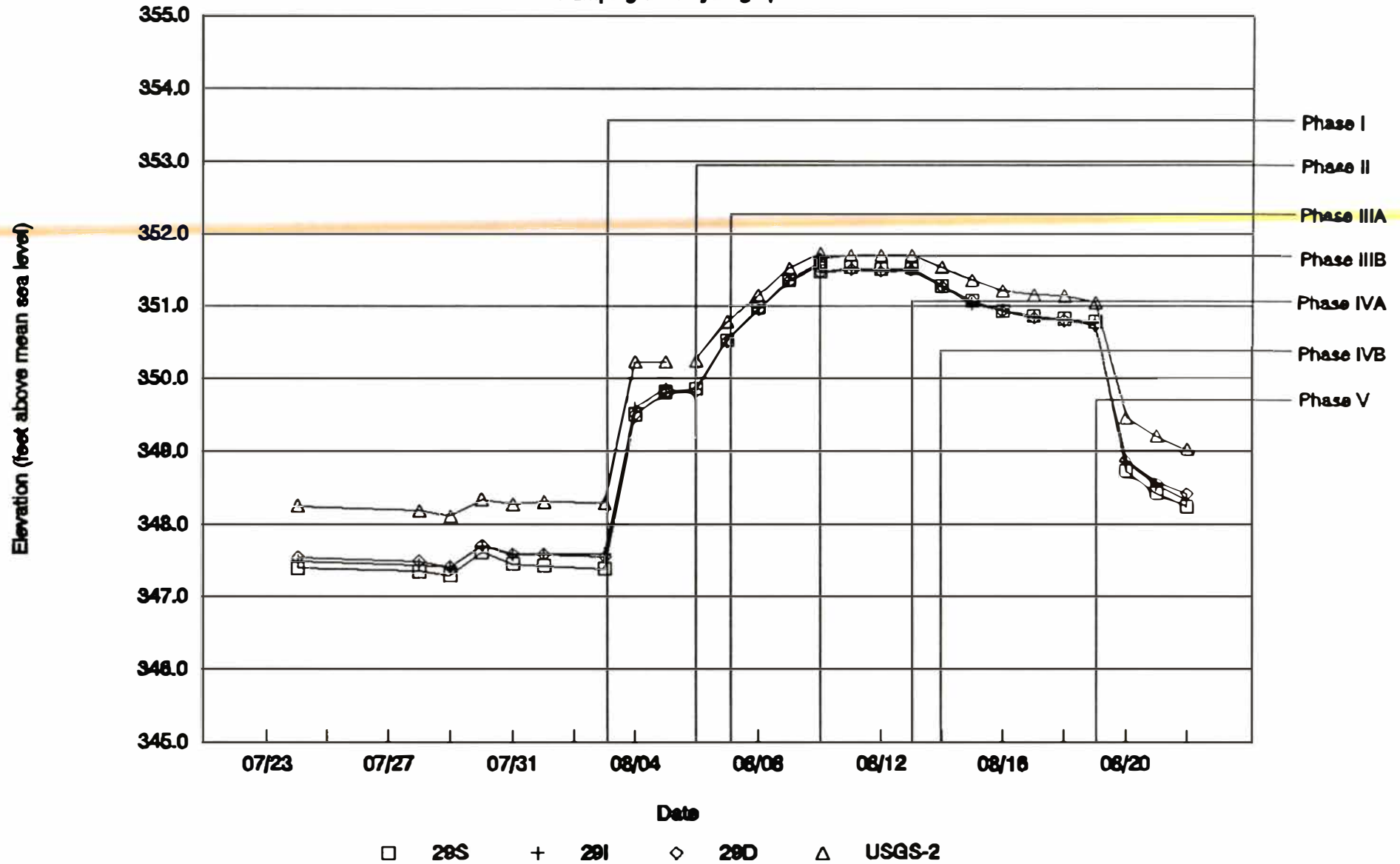
# MW-28S, 28I, 28D, USGS-2

Pumping Test Hydrographs



# MW-29S, 29I, 29D, USGS-2

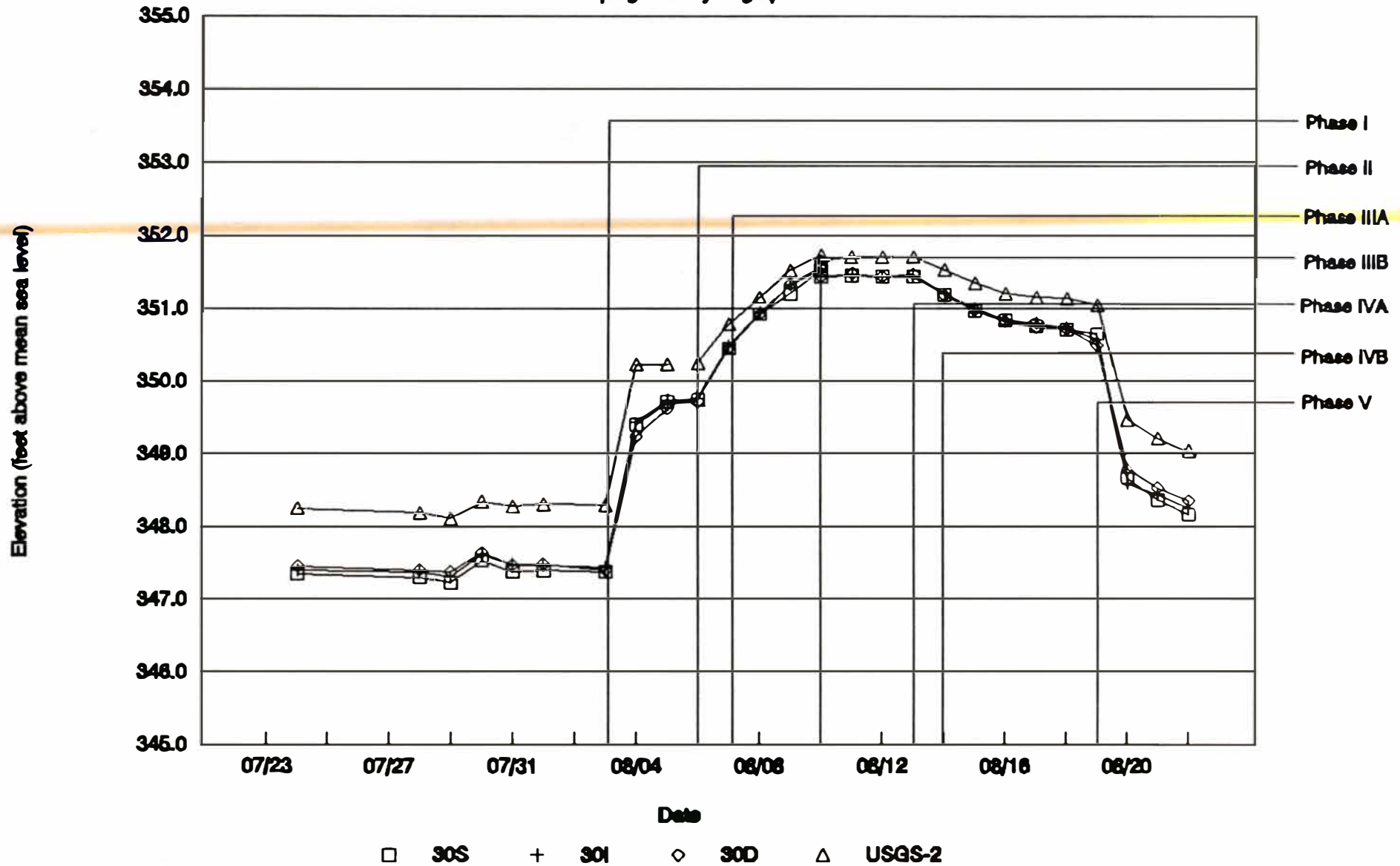
Pumping Test Hydrographs





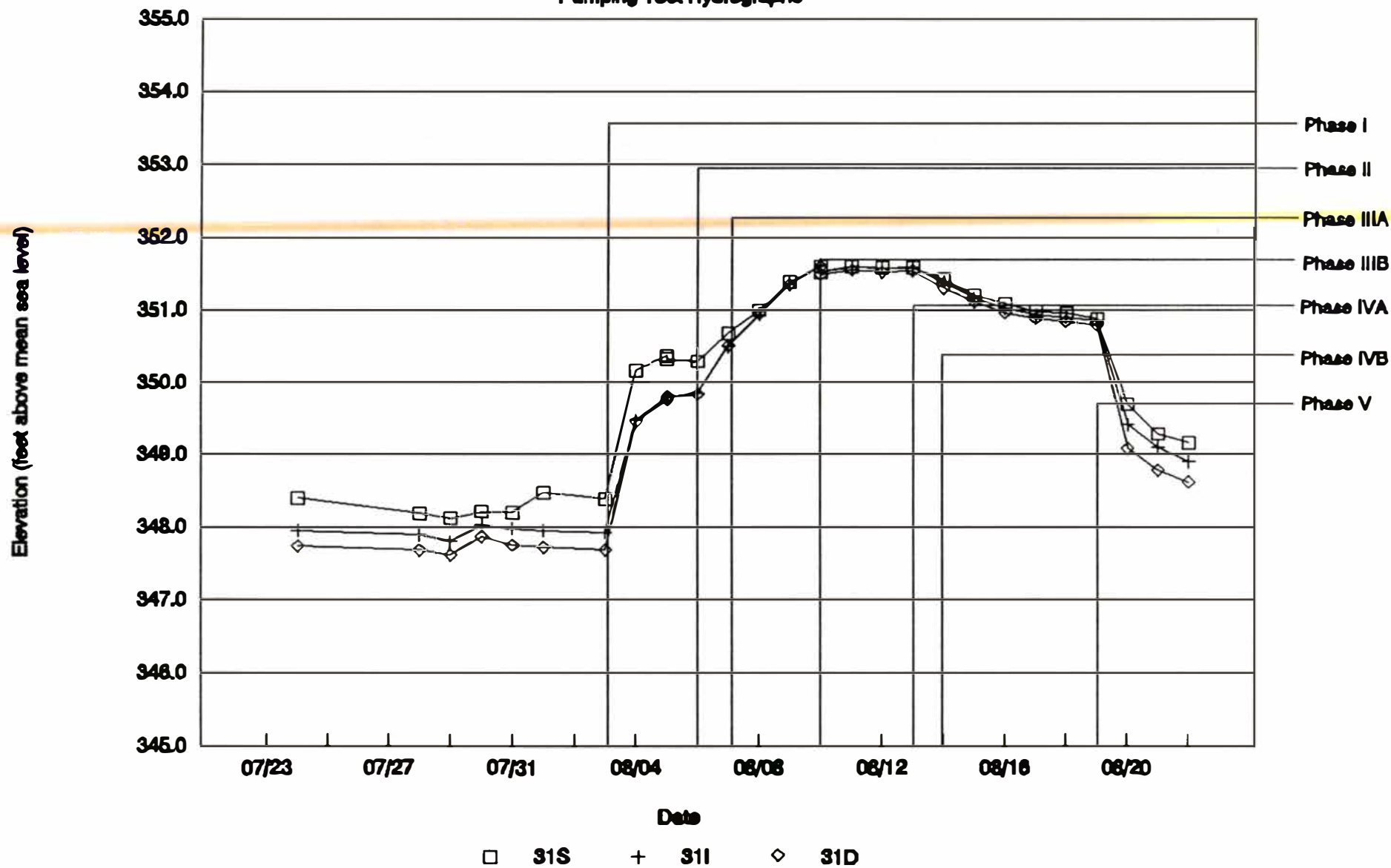
# MW-30S, 30I, 30D, USGS-2

Pumping Test Hydrographs



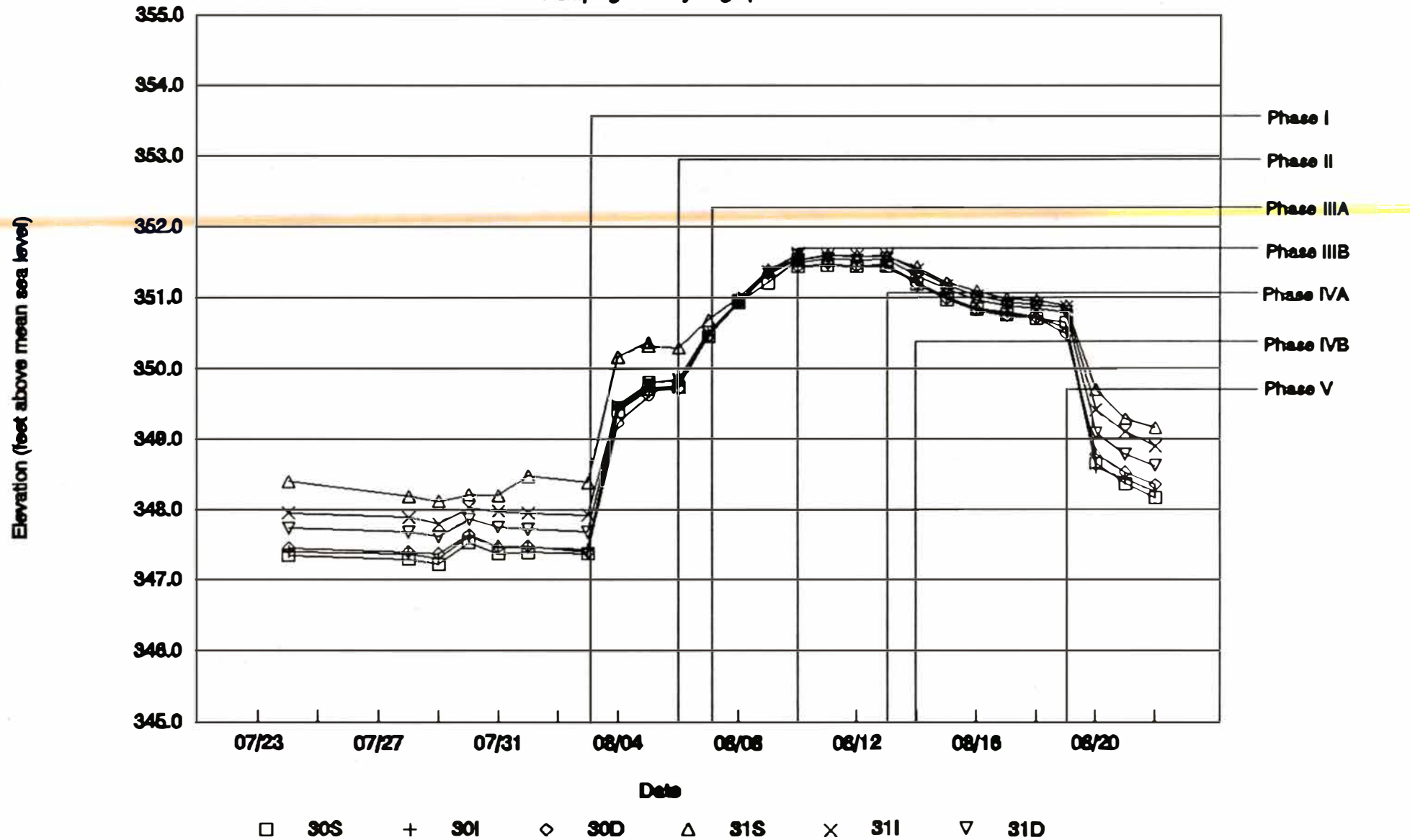
# MW-31S, 31I, 31D, USGS-2

Pumping Test Hydrographs



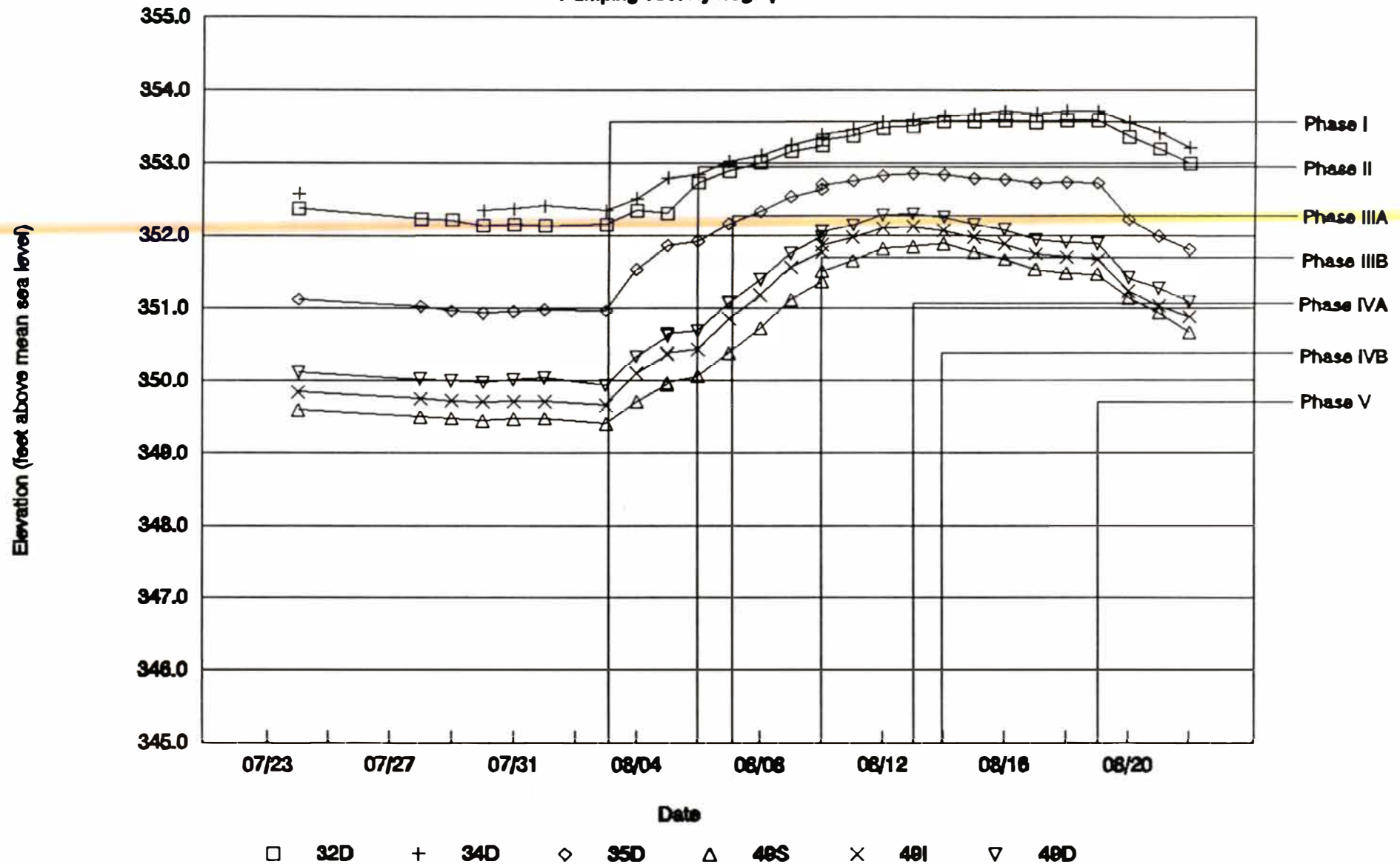
# MW-30S, 30I, 30D, 31S, 31I, 31D

Pumping Test Hydrographs



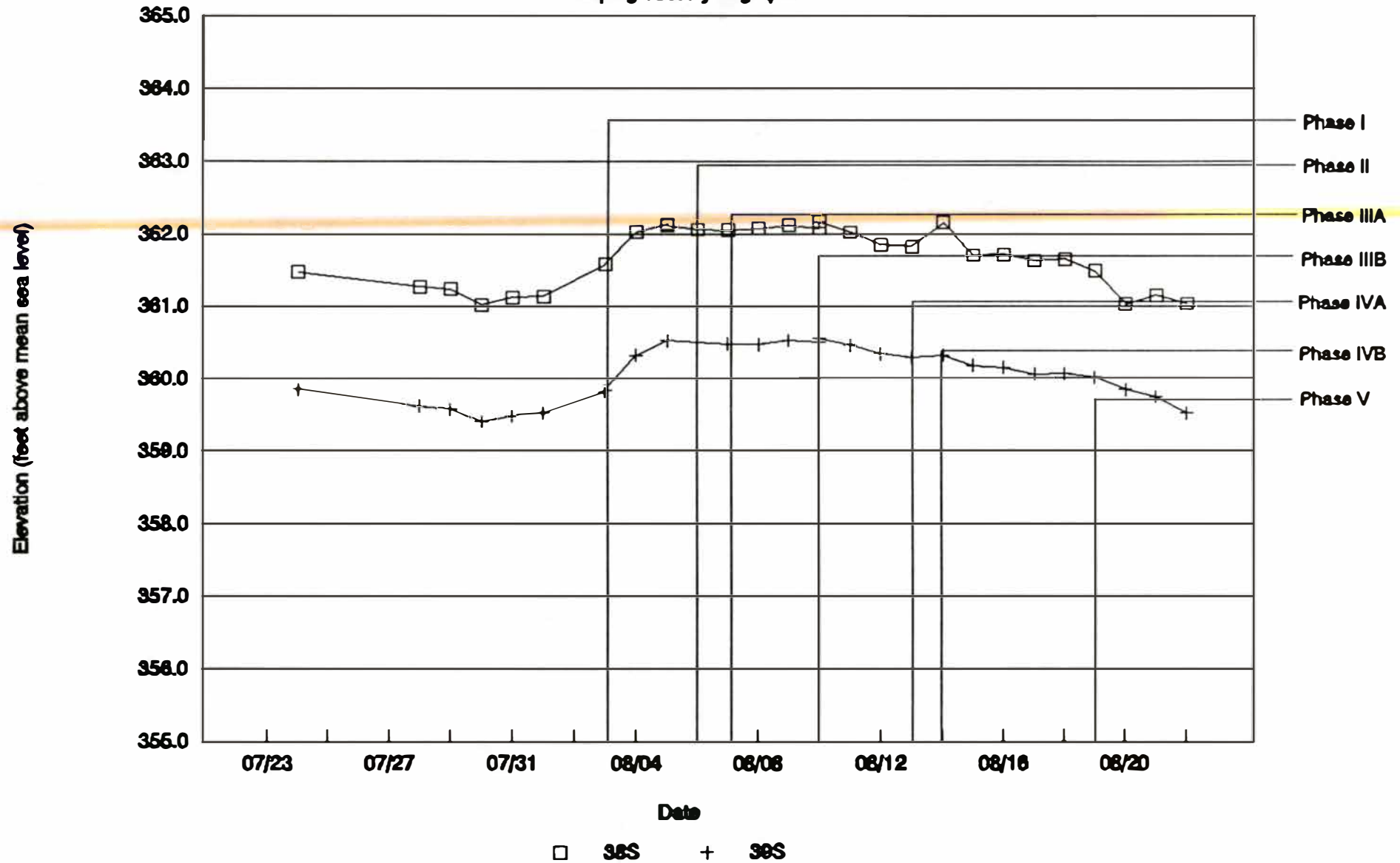
# MW-32D, 34D, 35D, 49S, 49I, 49D

Pumping Test Hydrographs



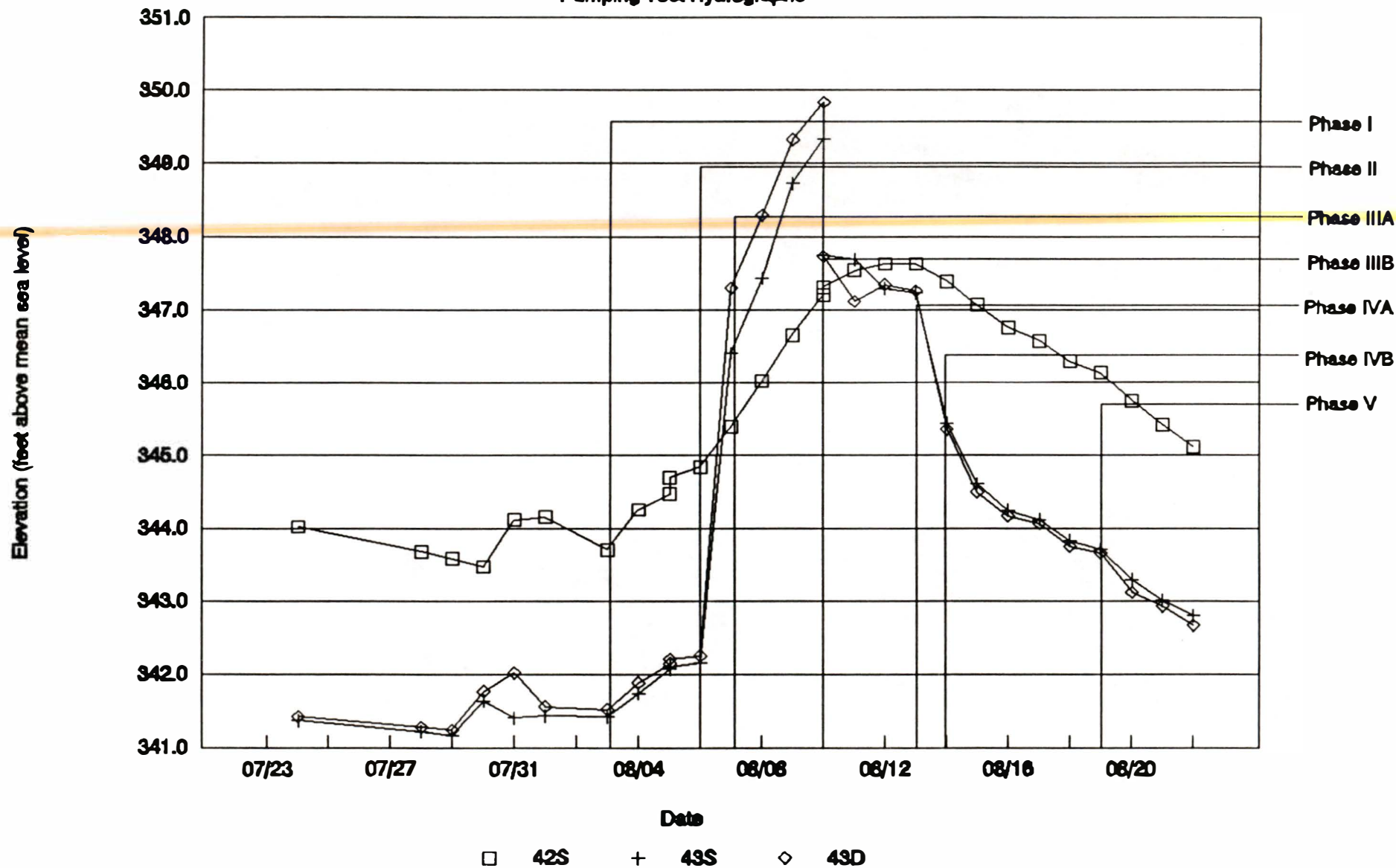
# MW-38S, 39S

## Pumping Test Hydrographs



# MW-42S, 43S, 43D

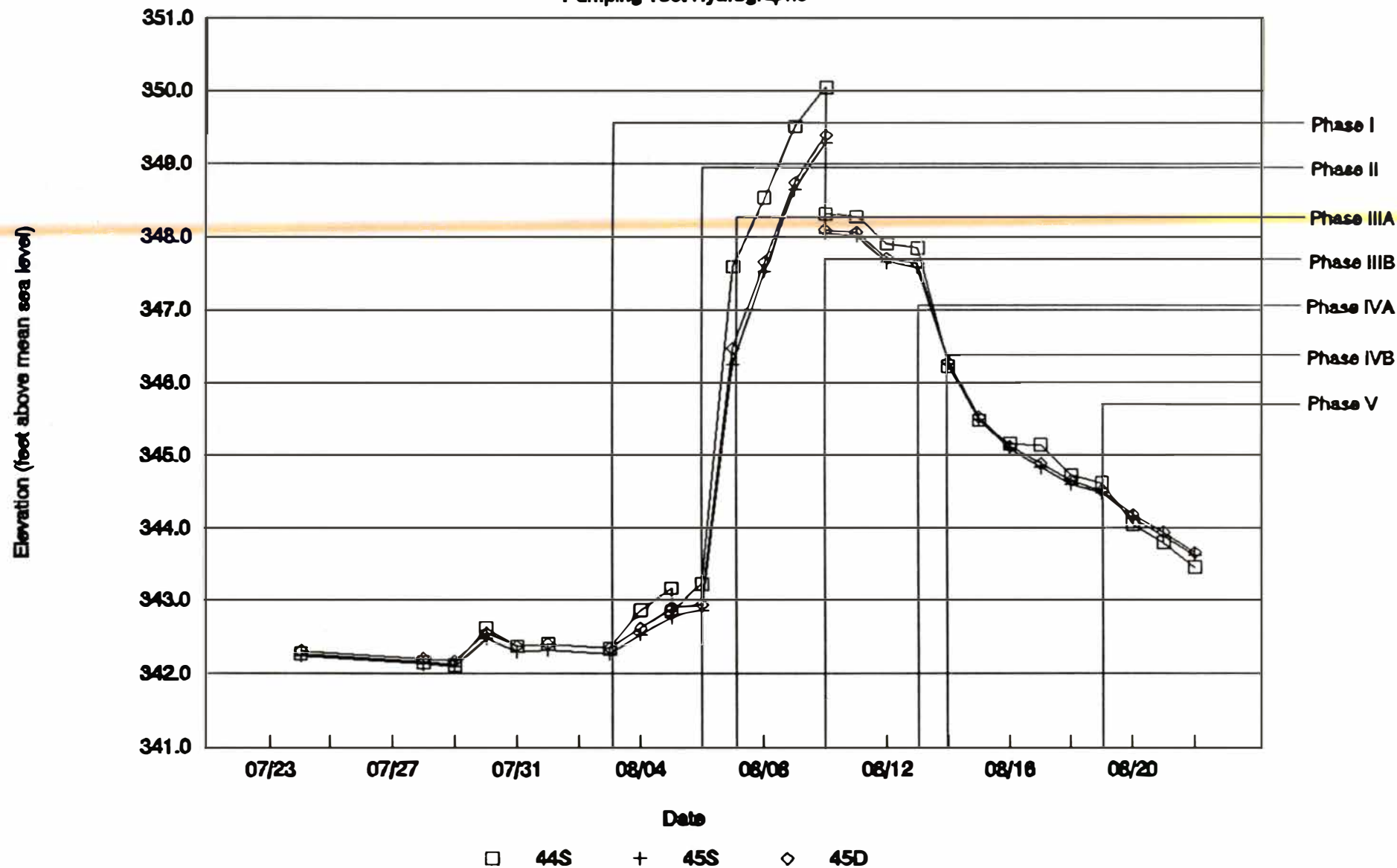
Pumping Test Hydrographs





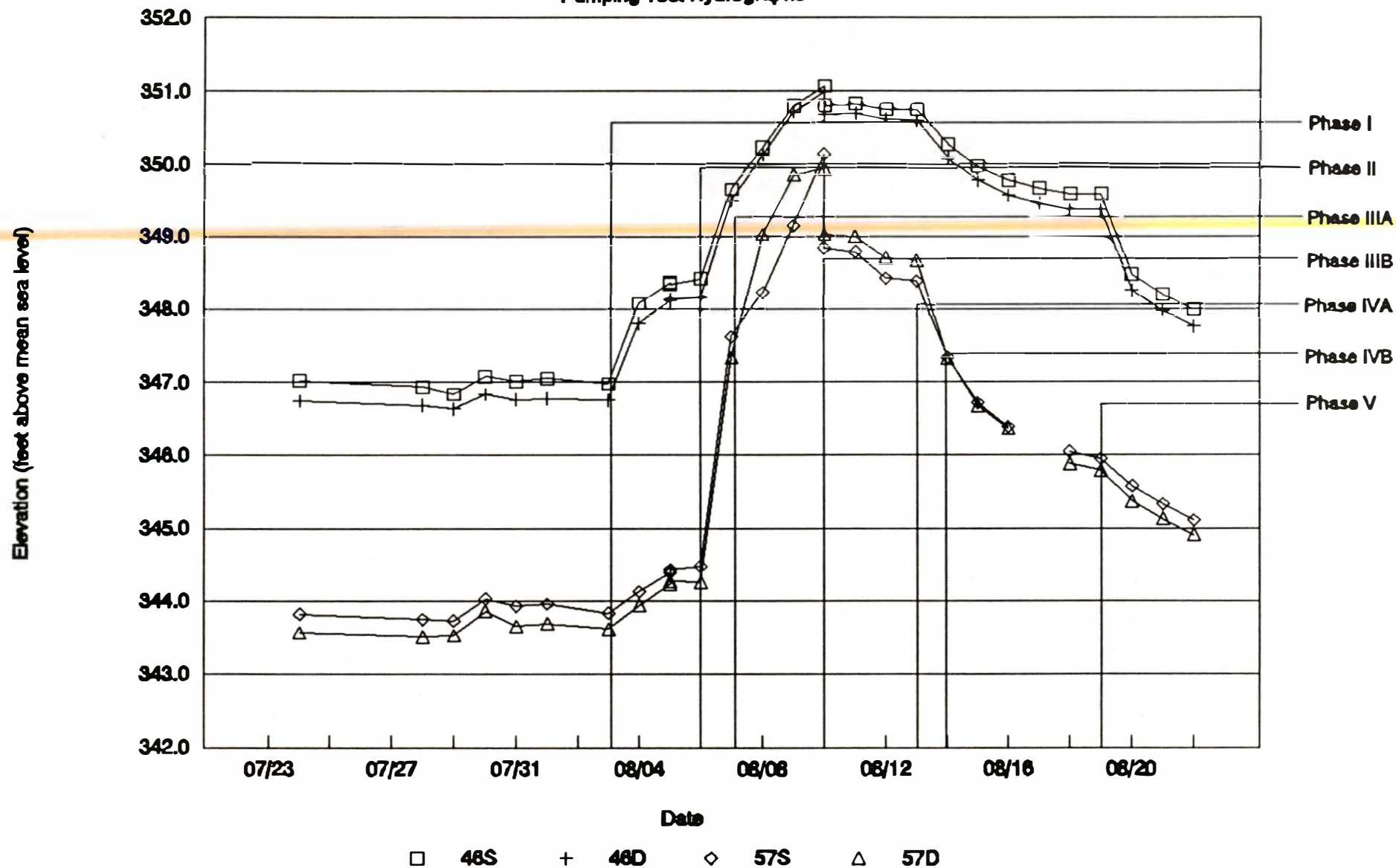
# MW-44S, 45S, 45D

Pumping Test Hydrographs



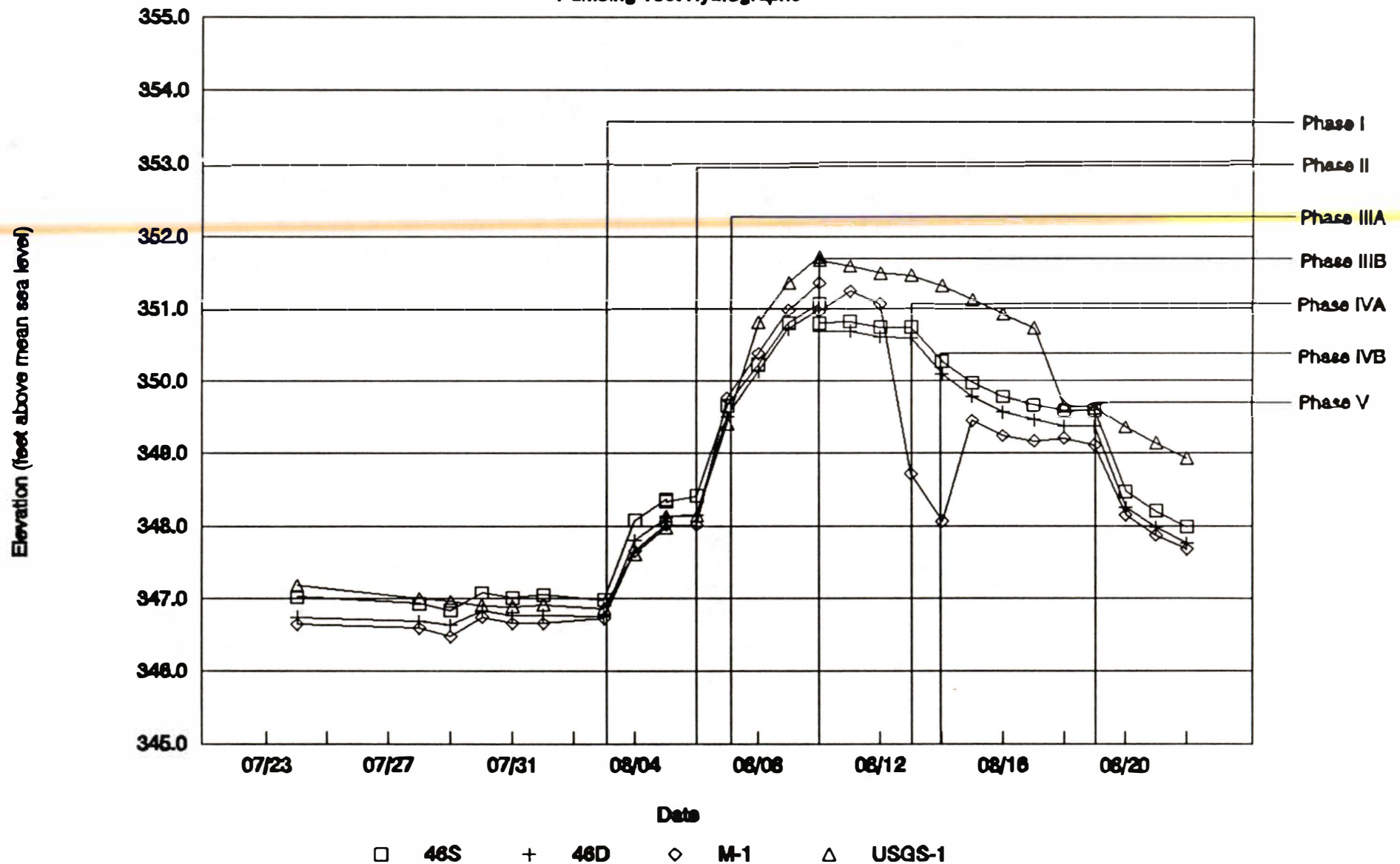
# MW-46S, 46D, 57S, 57D

Pumping Test Hydrographs



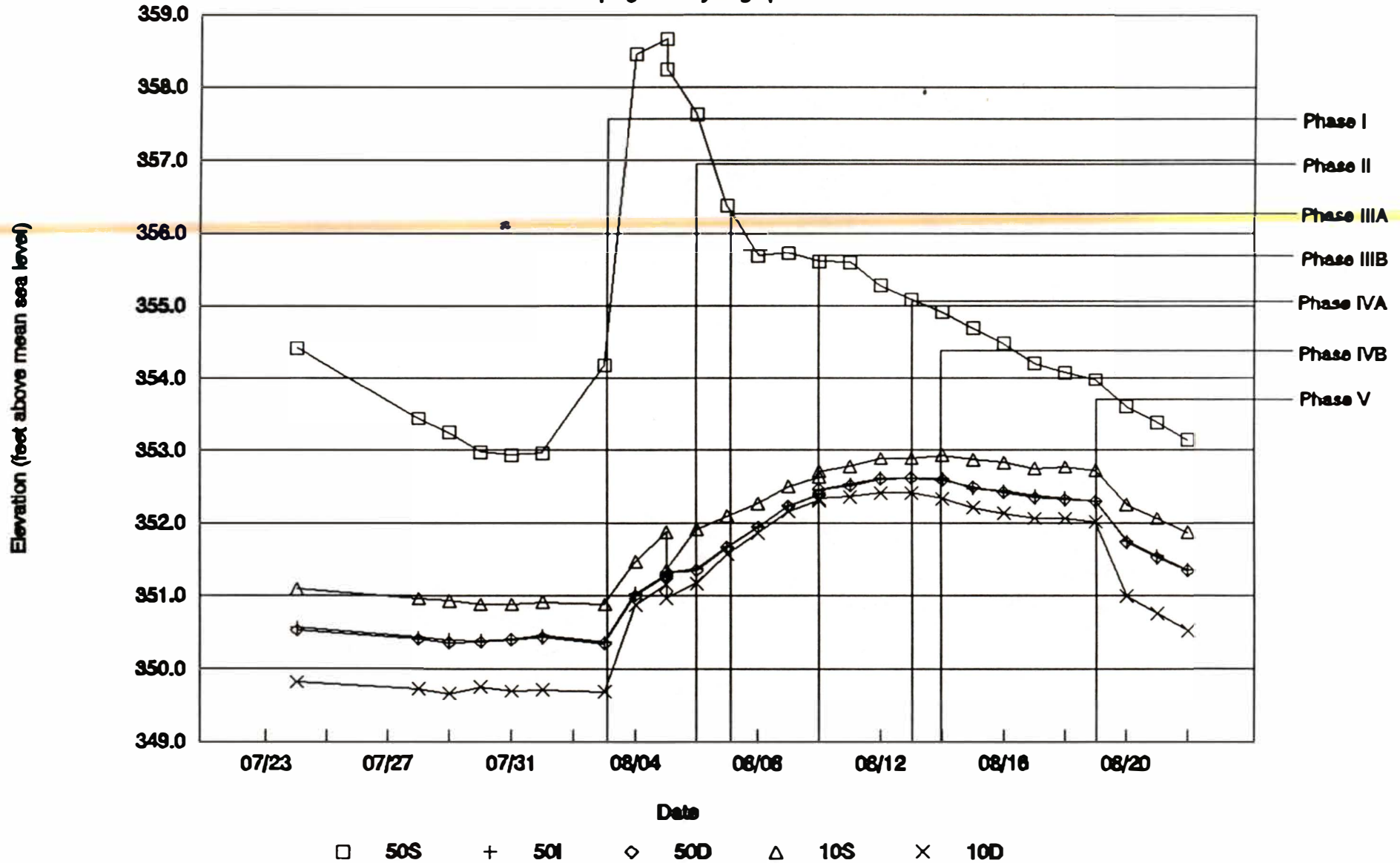
# MW-46S, MW-46D, M-1, USGS-1

Pumoling Test Hydrographs



# MW-50S, 50I, 50D, 10S, 10D

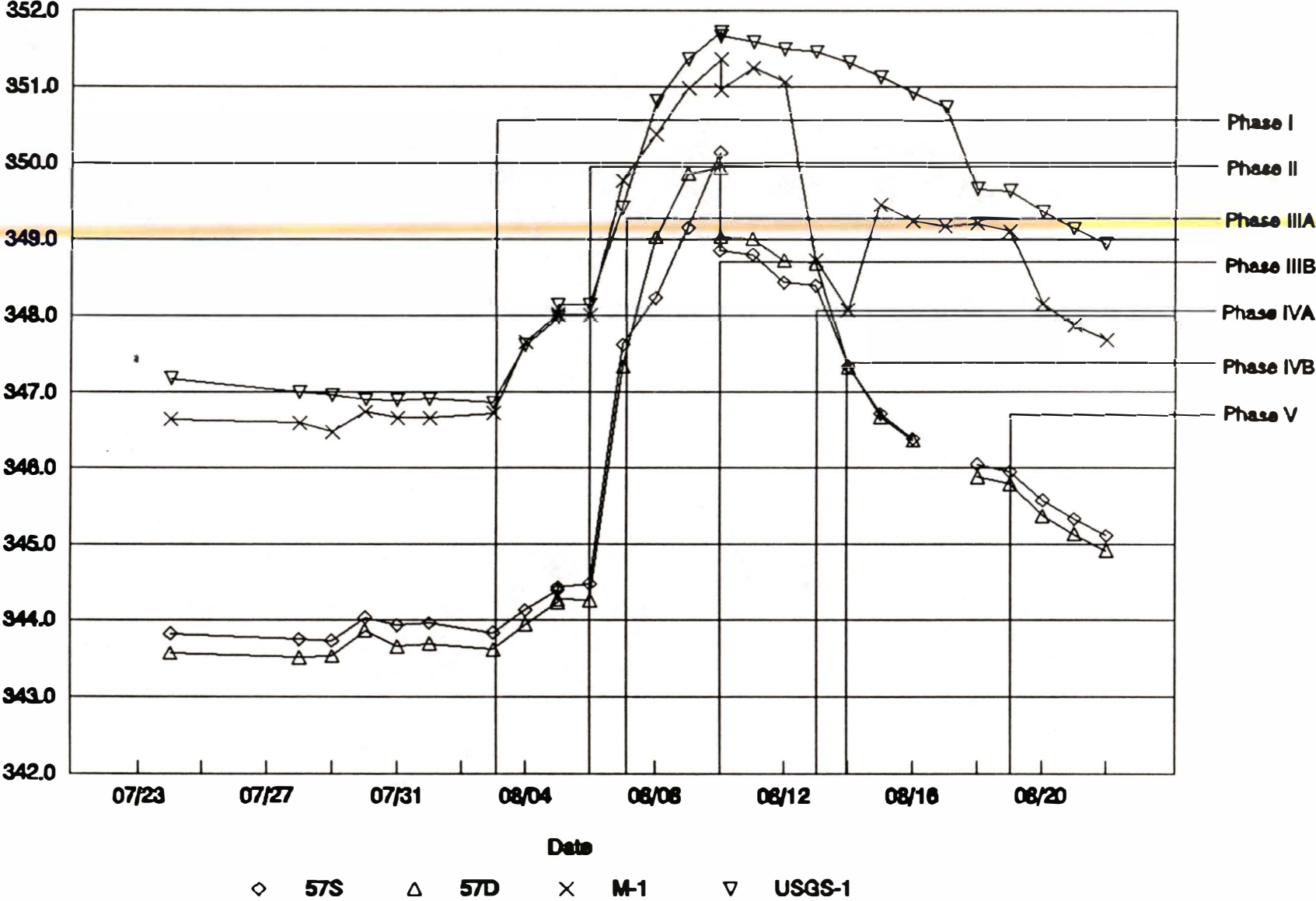
Pumping Test Hydrographs



# MW-57S, 57D, USGS-1, M-1

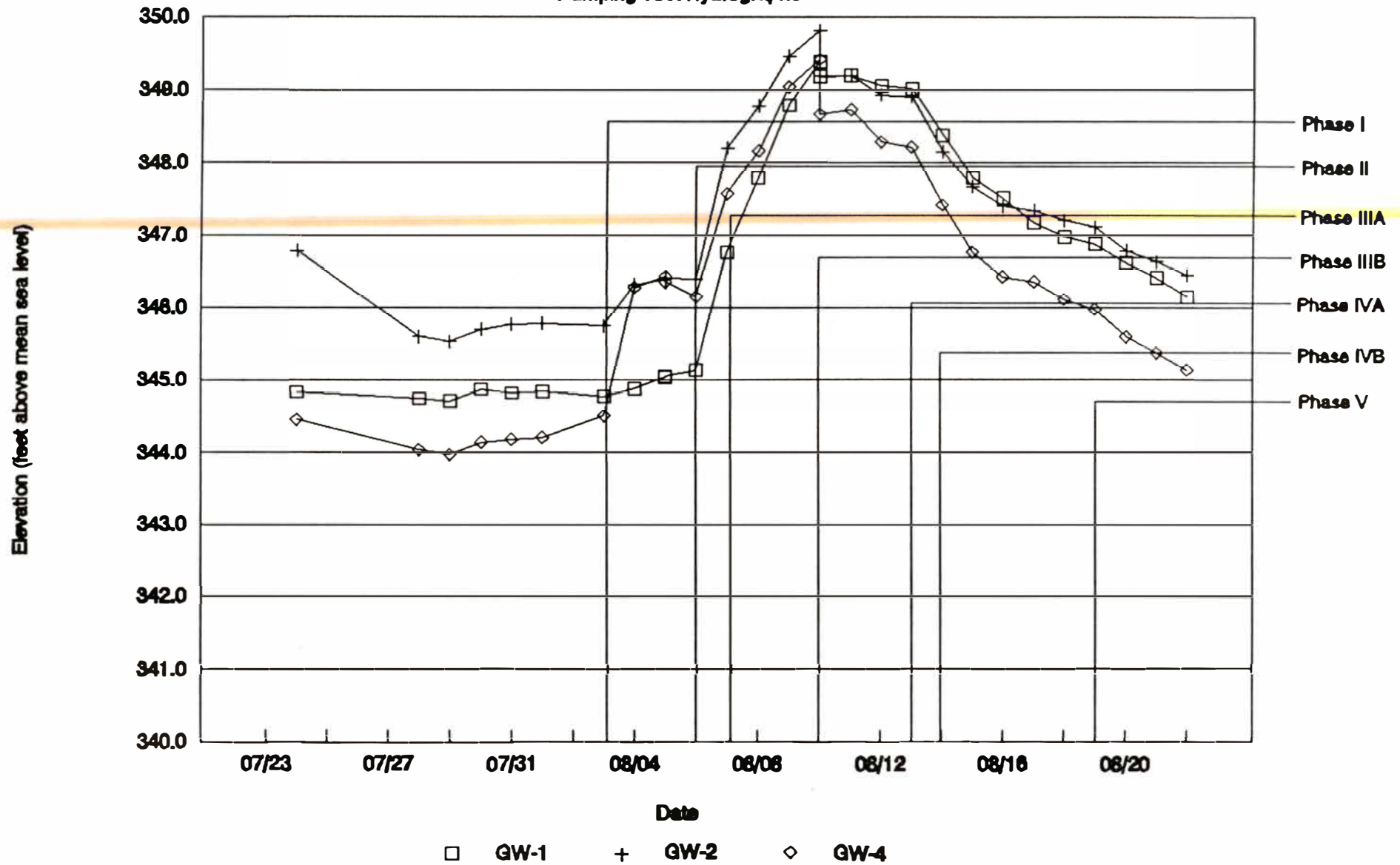
Pumping Test Hydrographs

Elevation (feet above mean sea level)



# GW-1, GW-2, GW-4

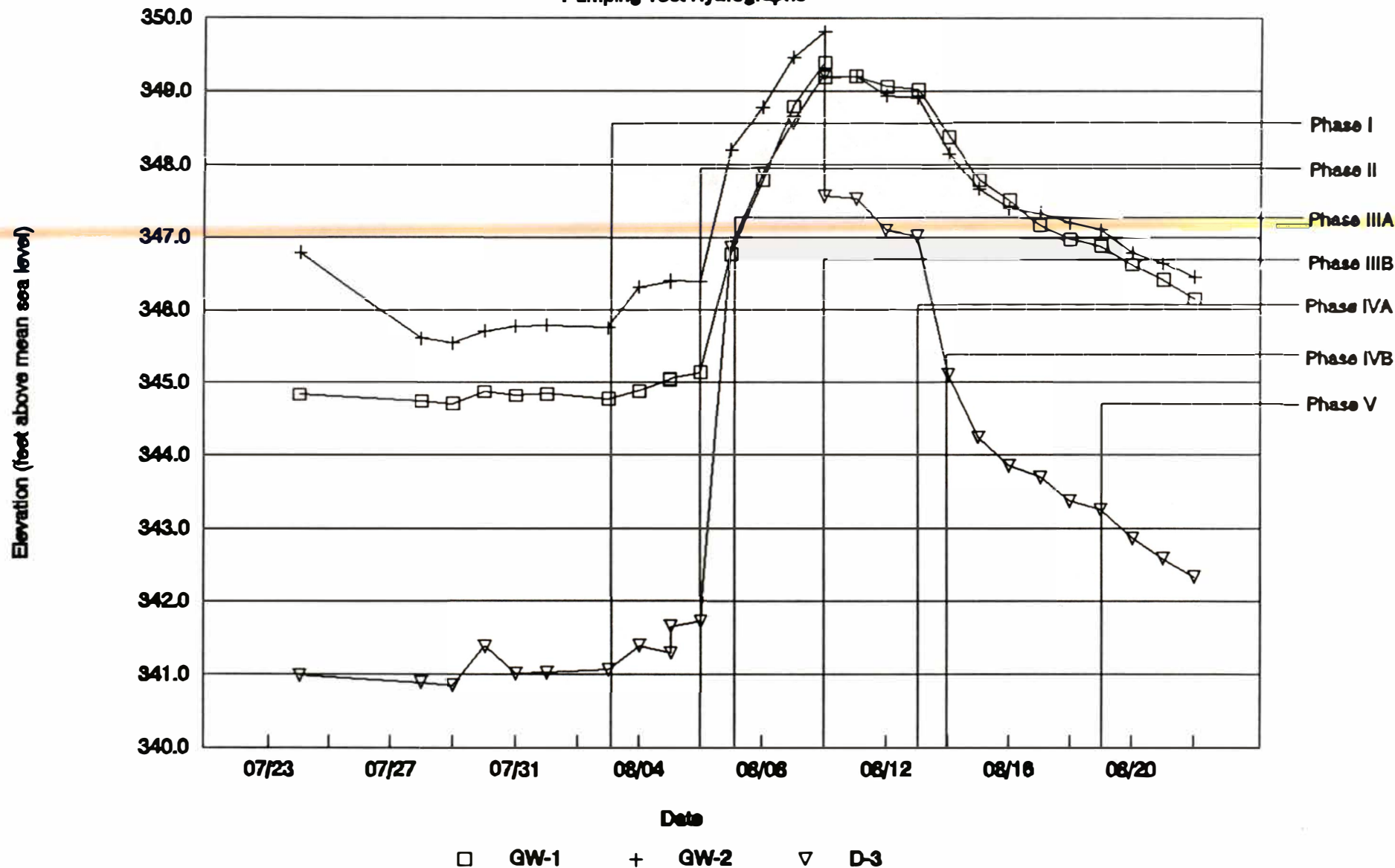
Pumping Test Hydrographs





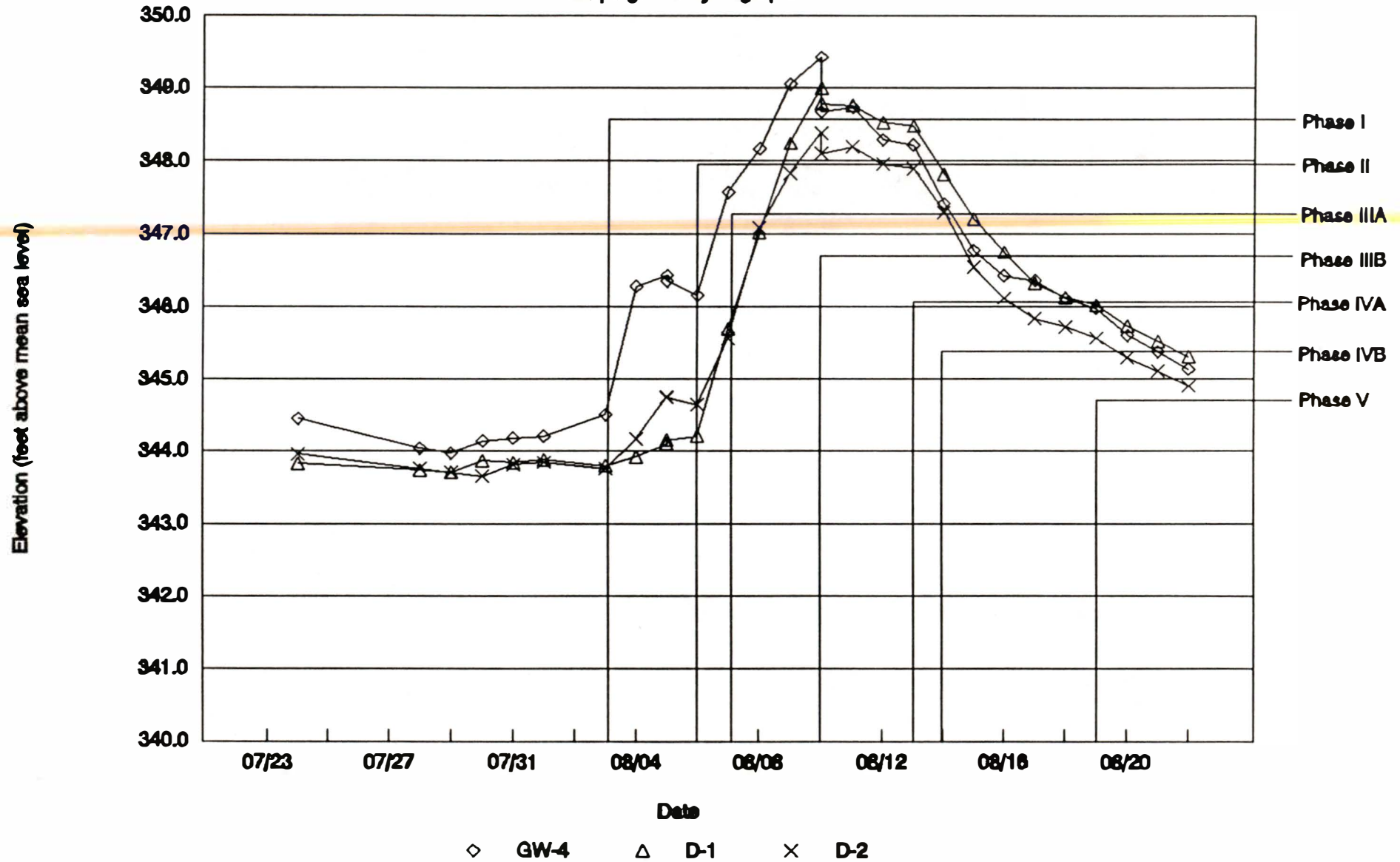
# GW-1, GW-2, D-3

Pumping Test Hydrographs



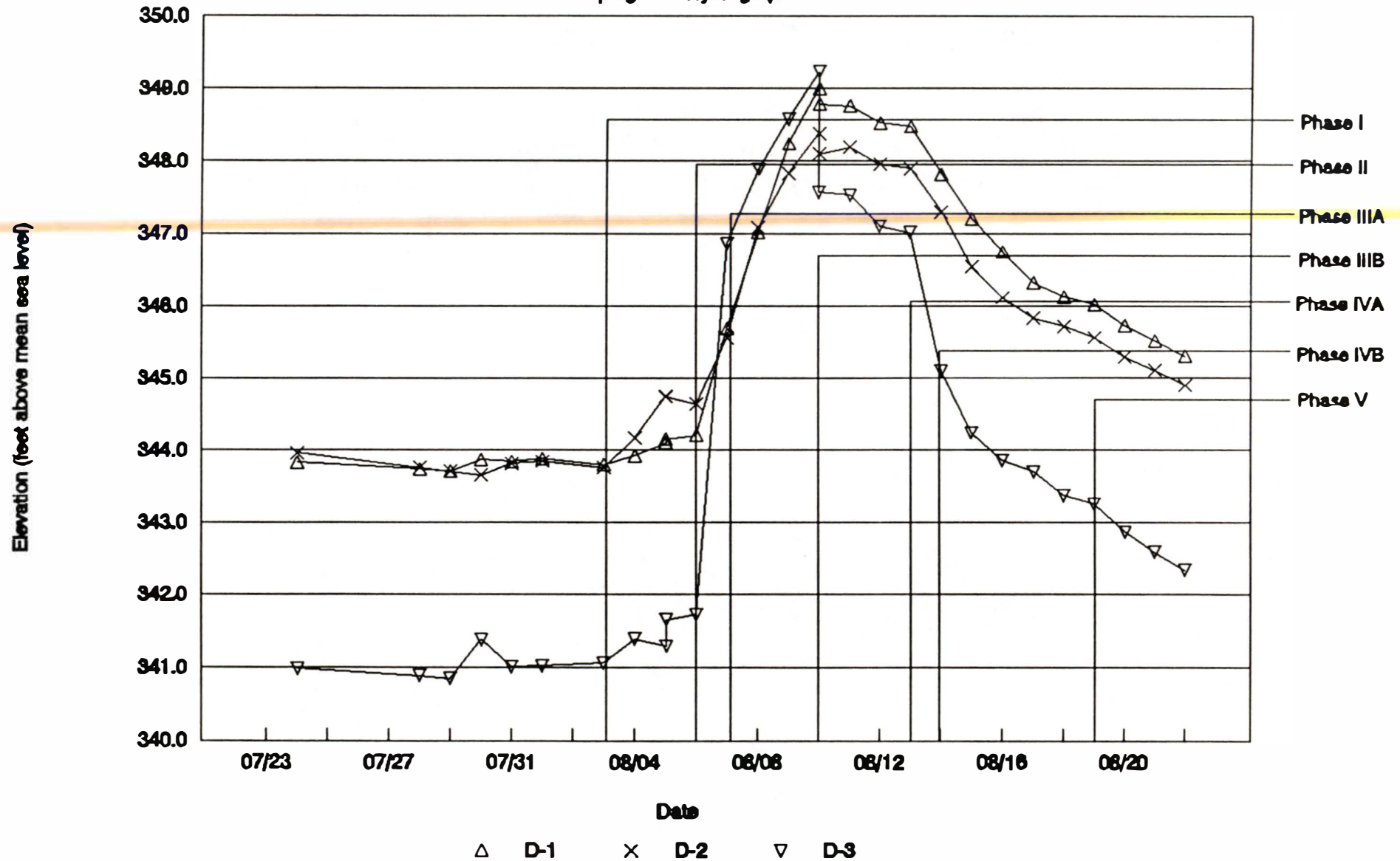
# GW-4, D-1, D-2

## Pumping Test Hydrographs



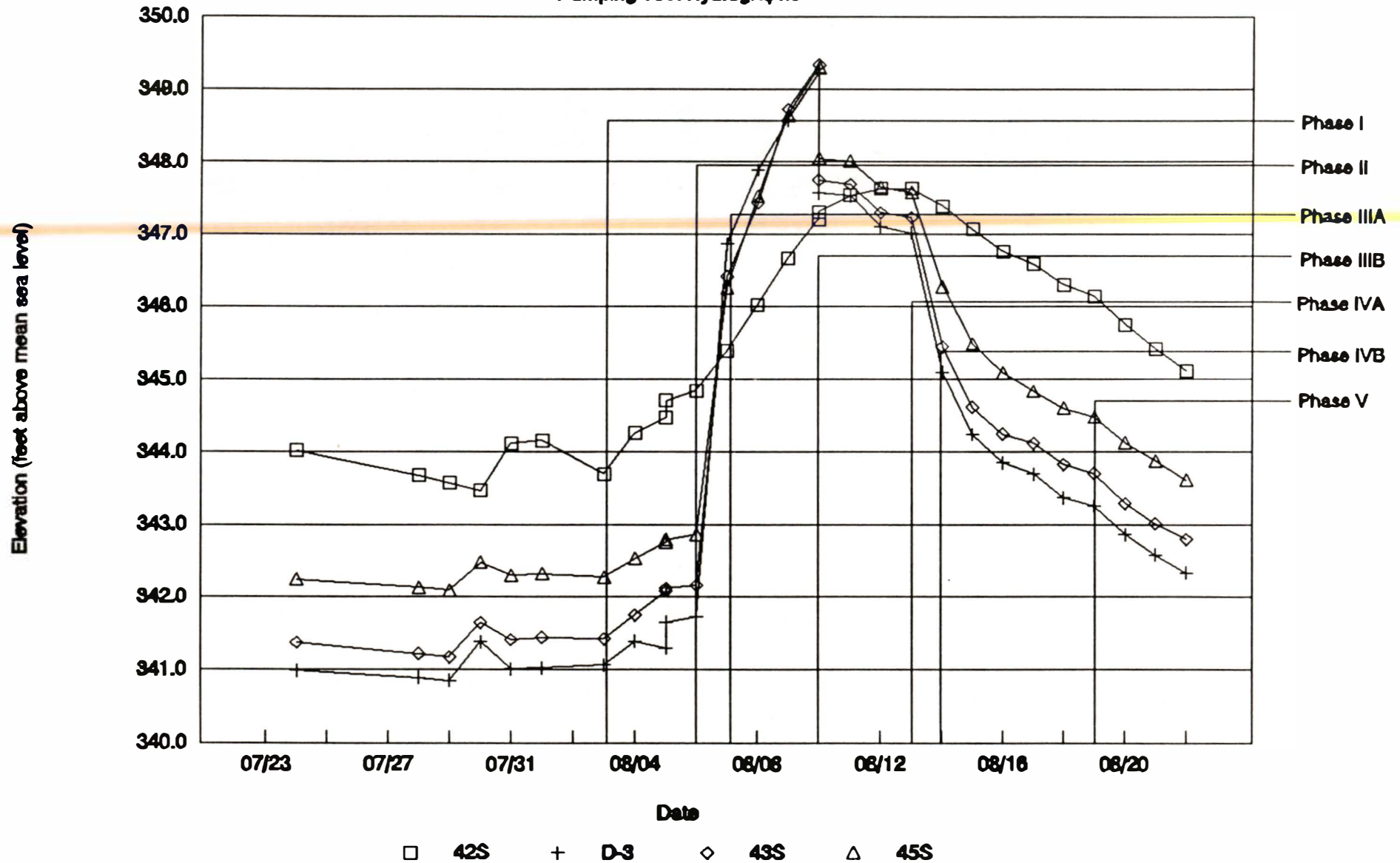
# D-1, D-2, D-3

## Pumping Test Hydrographs



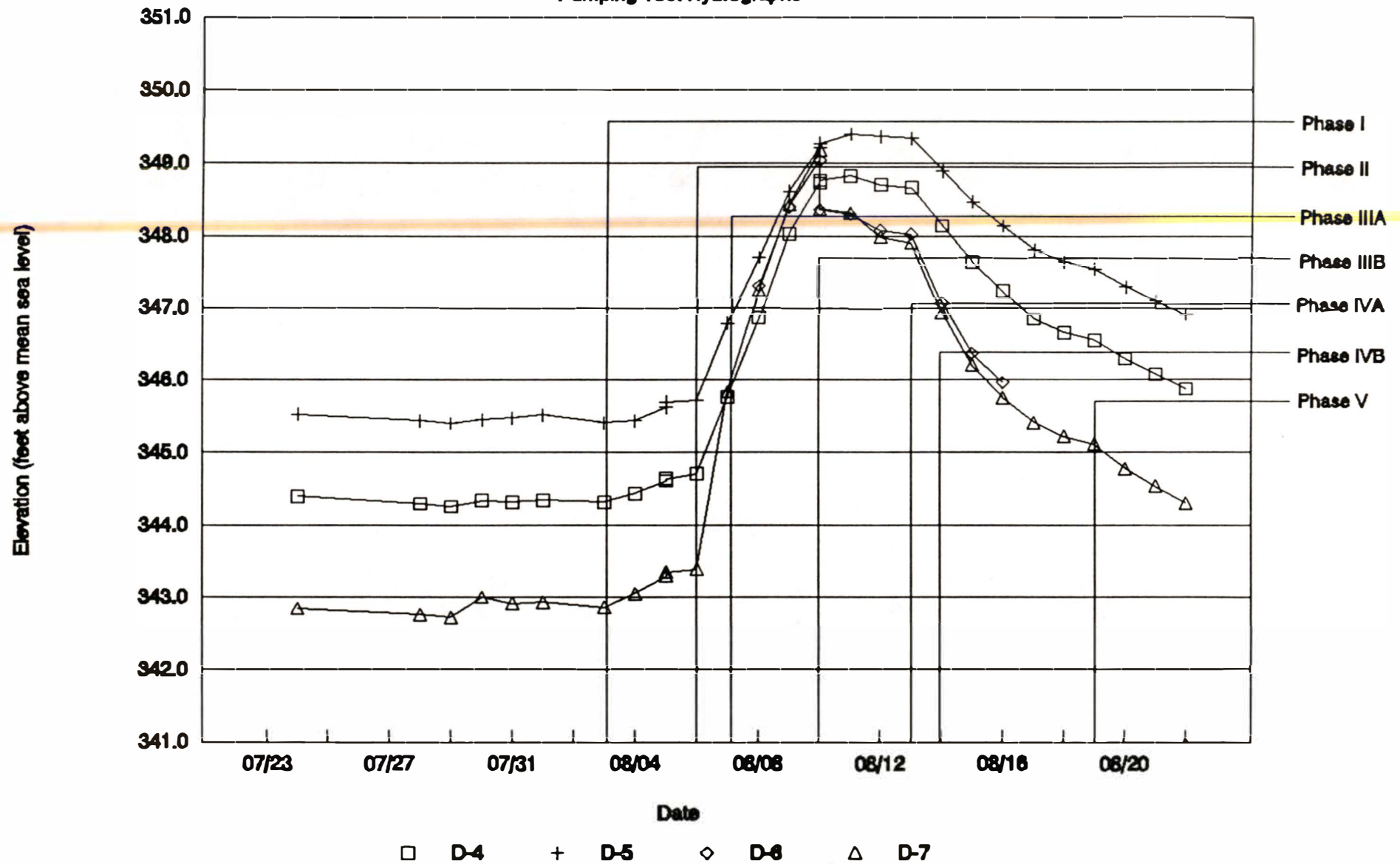
# MW-42S, D-3, MW-43S, MW-45S

Pumping Test Hydrographs



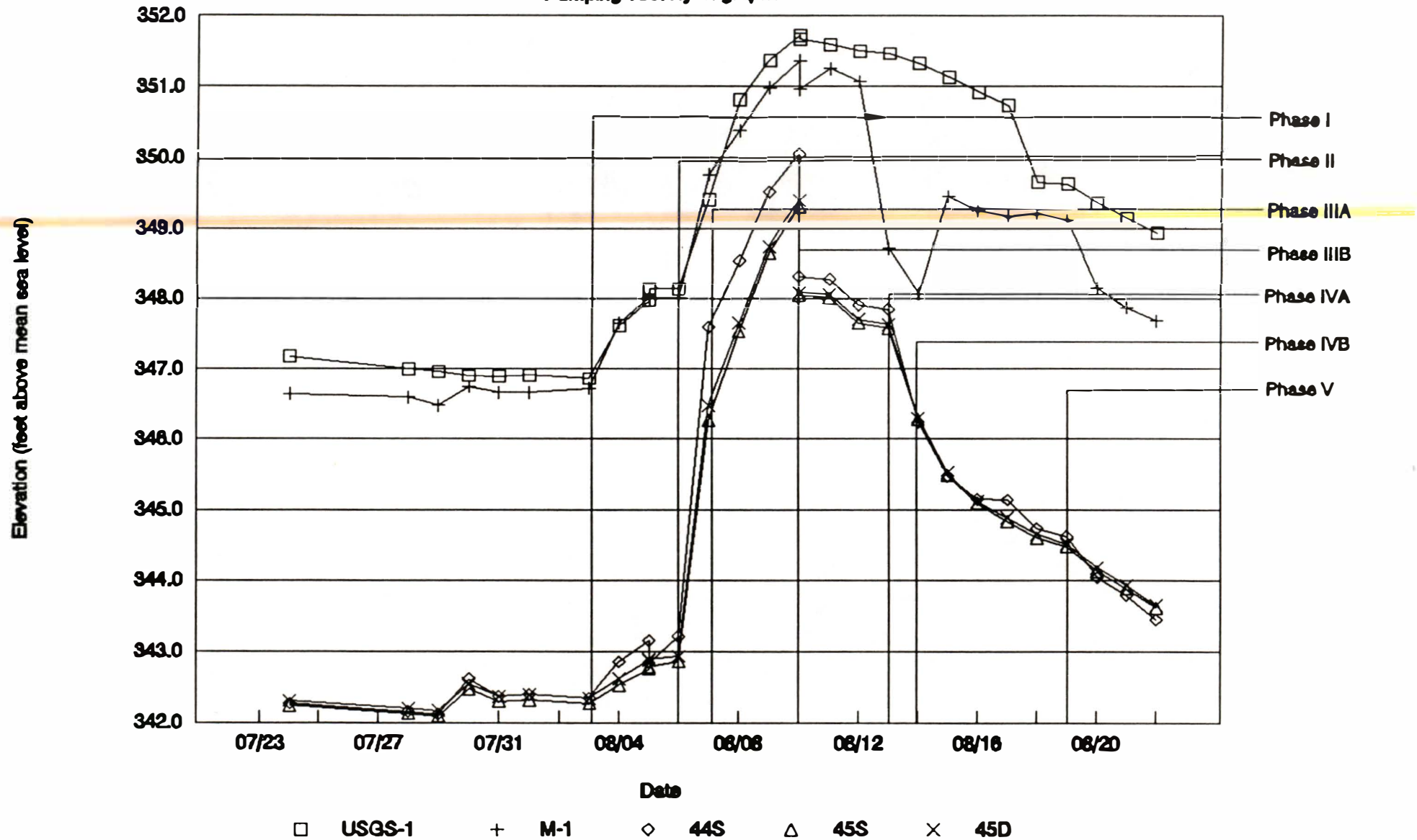
# D-4, D-5, D-6, D-7

## Pumping Test Hydrographs



# USGS-1, M-1, MW-44S, 45S, 45D

Pumping Test Hydrographs





## *APPENDIX D*

### *Time - Drawdown Plots - Jacob Method*

MW-423 (Phase II B)

46 5490

K-E SEMI-LOGARITHMIC • 3 CYCLES X 70 DIVISIONS  
KEUFFEL & ESSER CO. MADE IN U.S.A.

(inches)

K-1 off due to power failure

TIME-DRAWDOWN ANALYSIS  
JACOB'S APPROXIMATION

$$\begin{aligned} T &= 105 \text{ ft} \\ Q &= 530 \text{ gpm} = 44.1 \text{ ft}^3/\text{min} \\ AS &= 190 - 0.34 R = 1.16 \text{ ft} \\ t_0 &= 2.5 \text{ min} \end{aligned}$$

$$T = \frac{2.303 Q}{4\pi AS}$$

$$S = \frac{2.25 T t_0}{r^2}$$

$$T = \frac{2.303 (44.1 \text{ ft}^3/\text{min})}{4\pi (1.16 \text{ ft})} = 6.97 \text{ ft}^2/\text{min}$$

$$S = \frac{2.25 (6.97 \text{ ft}^2/\text{min}) (23 \text{ min})}{(105)^2} = 0.033$$

Radius  $r$  (ft)

2

3



(inches)

MW-435 (Phase IV A)

TIME DRAWDOWN ANALYSIS  
JACOBI'S APPROXIMATION

$$r = 105 \text{ ft}$$

$$Q = 525 \text{ gpm} = 70.18 \frac{\text{ft}^3}{\text{min}}$$

$$\Delta s = 1.55 - 0.87 = 0.68 \text{ ft}$$

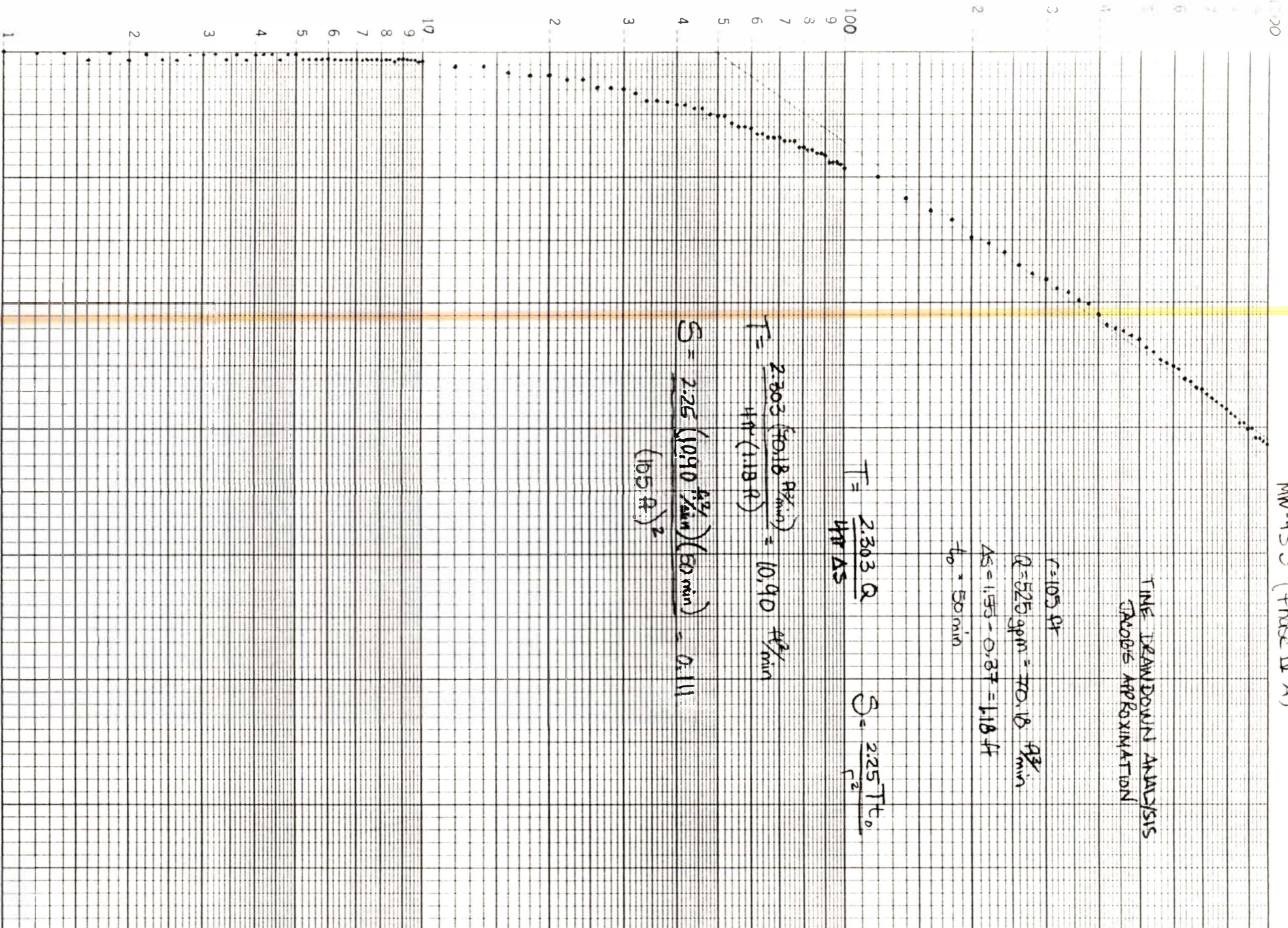
$$t_0 = 50 \text{ min}$$

$$T = \frac{2.303 Q}{4\pi \Delta s}$$

$$S = \frac{2.25 T t_0}{r^2}$$

$$T = \frac{2.303 (70.18 \frac{\text{ft}^3}{\text{min}})}{4\pi (1.18 \text{ ft})} = 10.90 \frac{\text{ft}^3}{\text{min}}$$

$$S = \frac{2.25 (10.90 \frac{\text{ft}^3}{\text{min}}) (50 \text{ min})}{(105 \text{ ft})^2} = 0.111$$



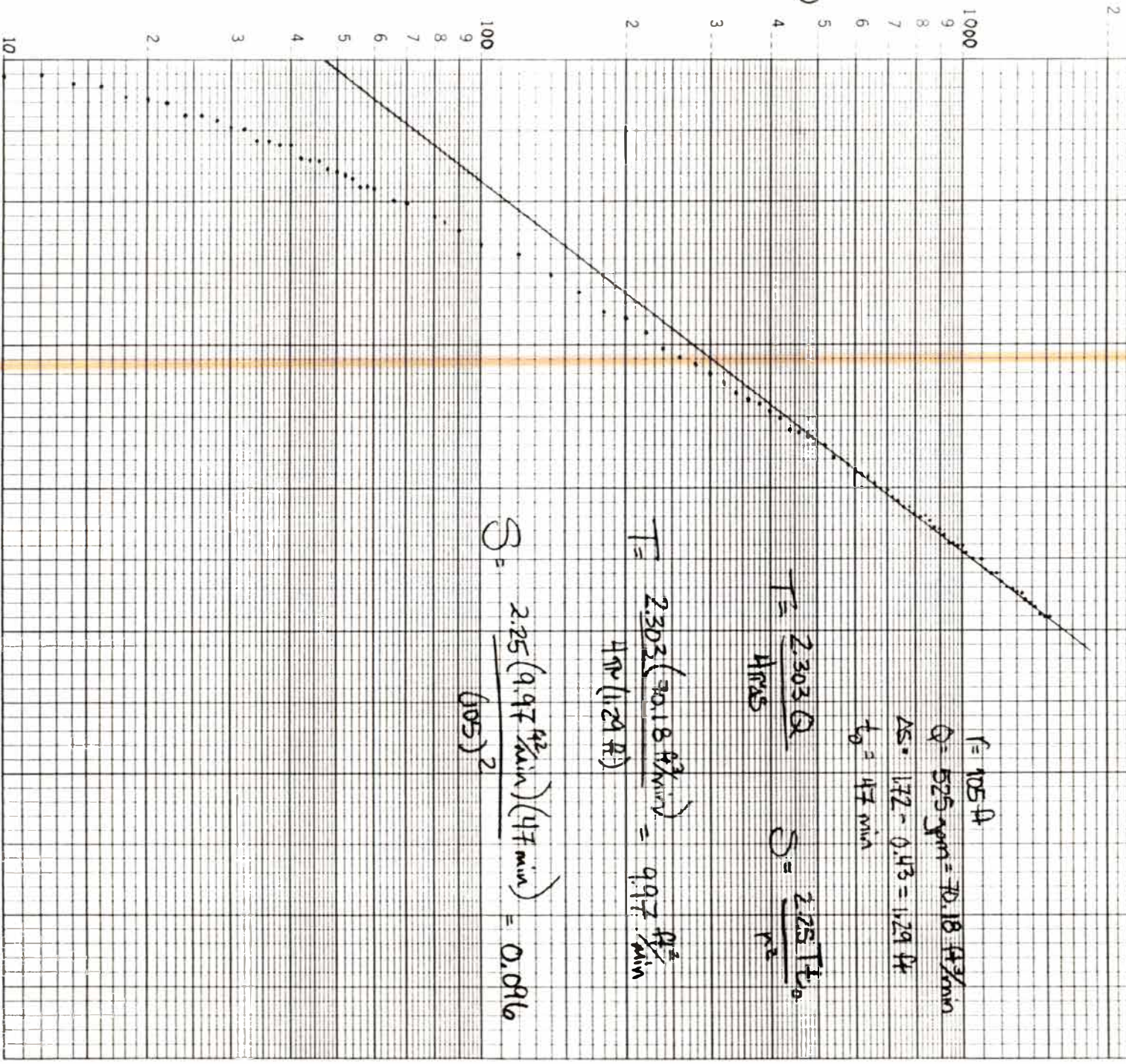


MW-43 D (Phase IV A)

TIME - DRAWDOWN ANALYSIS  
JACOBI'S APPROXIMATION

46 5490

mils)



$$r = 105 \text{ ft}$$

$$Q = 525 \text{ gpm} = 70.18 \text{ ft}^3/\text{min}$$

$$\Delta S = 1.72 - 0.473 = 1.29 \text{ ft}$$

$$t_0 = 17 \text{ min}$$

$$T = \frac{2.303 Q}{4\pi r^2 S} \quad S = \frac{2.25 T t_0}{r^2}$$

$$T = \frac{2.303 (70.18 \text{ ft}^3/\text{min})}{4\pi (105 \text{ ft})^2} = 9.97 \frac{\text{ft}^2}{\text{min}}$$

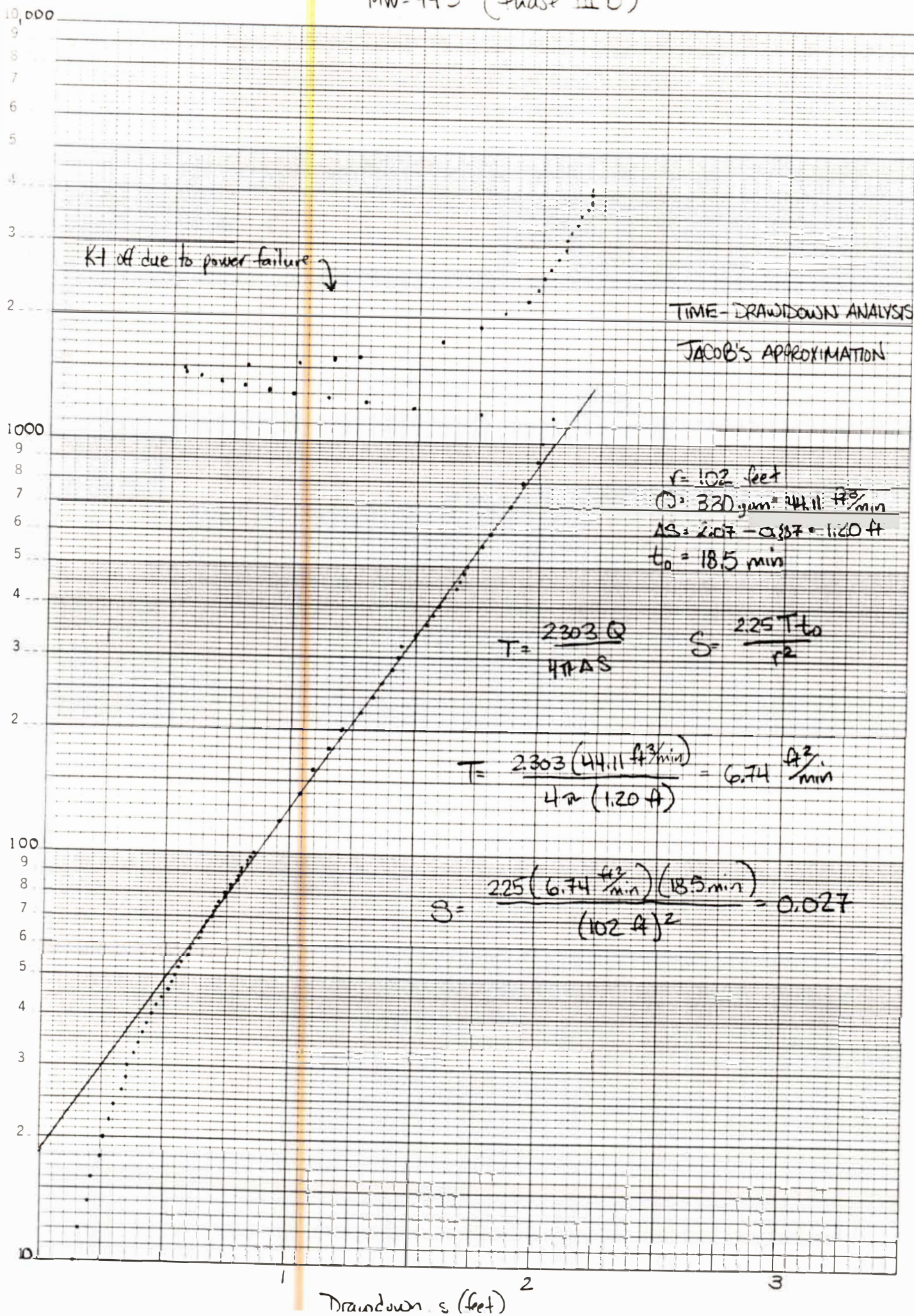
$$S = \frac{2.25 (9.97 \frac{\text{ft}^2}{\text{min}}) (17 \text{ min})}{(0.05)^2} = 0.016$$



# MW-44S (Phase II B)

46 5490  
t  
(minutes)

K&E SEMI-LOGARITHMIC • 3 CYCLES X 70 DIVISIONS  
KEUFFEL & ESSER CO. MADE IN U.S.A.





MW-44 S (Phase IV A)

TIME-DRAWDOWN ANALYSIS  
JACOBI'S APPROXIMATION

$$r = 102 \text{ feet}$$

$$Q = 525 \text{ gpm} = 70.18 \frac{\text{ft}^3}{\text{min}}$$

$$AS = 144 - 8.48 = 0.96 \text{ ft}$$

$$t_0 = 64 \text{ min}$$

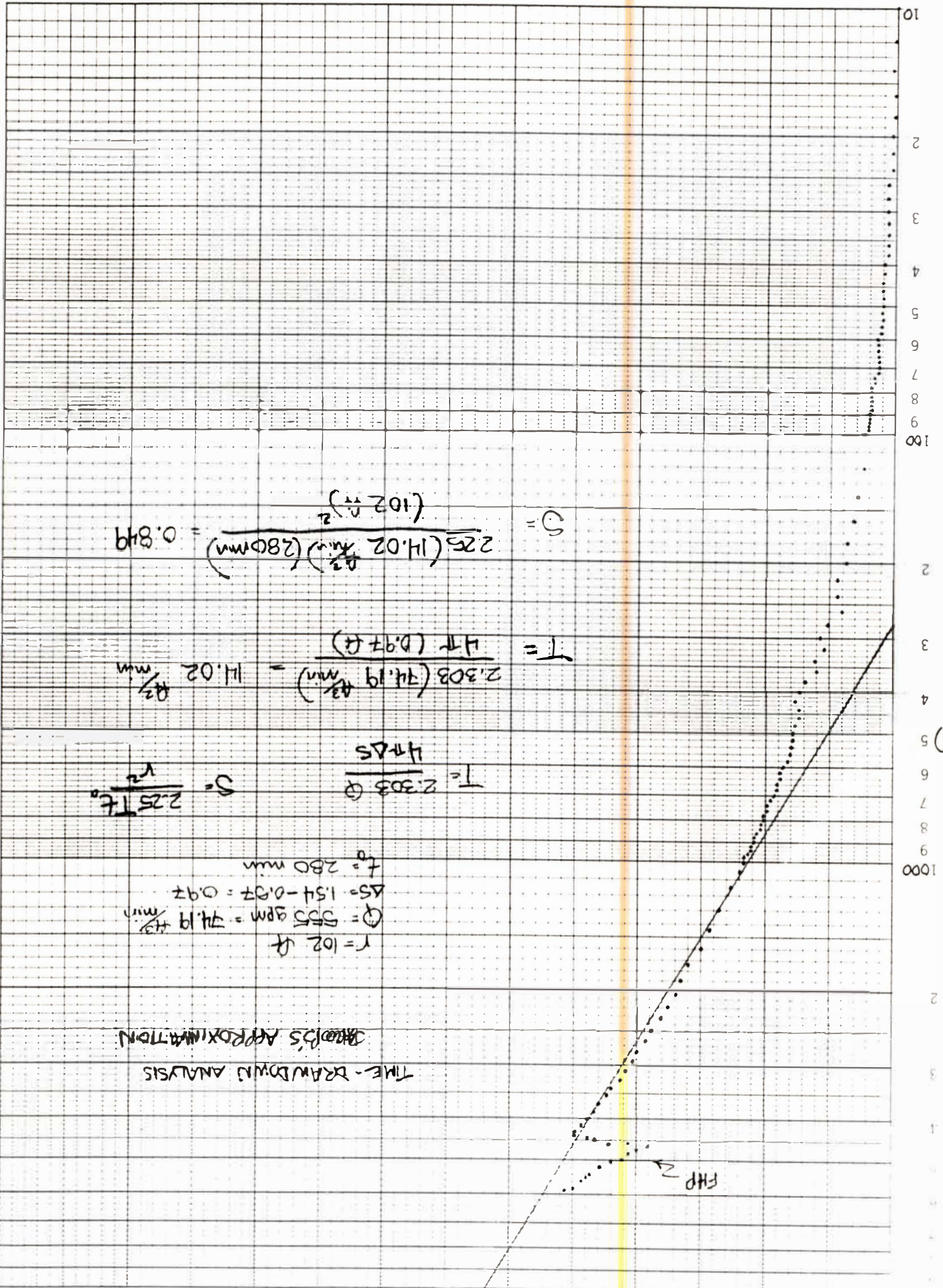
$$T = \frac{2.303 Q}{4 \pi AS} \quad S = \frac{2.25 T t_0}{r^2}$$

$$T = \frac{2.303 (70.18 \frac{\text{ft}^3}{\text{min}})}{4 \pi (0.96 \text{ ft})} = 13.40 \frac{\text{ft}^2}{\text{min}}$$

$$S = \frac{2.25 (13.40 \frac{\text{ft}^2}{\text{min}}) (64 \text{ min})}{(102 \text{ ft})^2} = 0.185$$







MW-44S (Phase II B)

TIME-DRAWDOWN ANALYSIS  
THEORETICAL APPROXIMATION

$$r = 102.4$$

$$Q = 555 \text{ gpm} = 74.19 \frac{\text{ft}^3}{\text{min}}$$

$$AS = 1.54 - 0.07 = 0.97$$

$$f_0 = 280 \text{ mm}$$

$$T = \frac{2.303 Q}{4\pi AS}$$

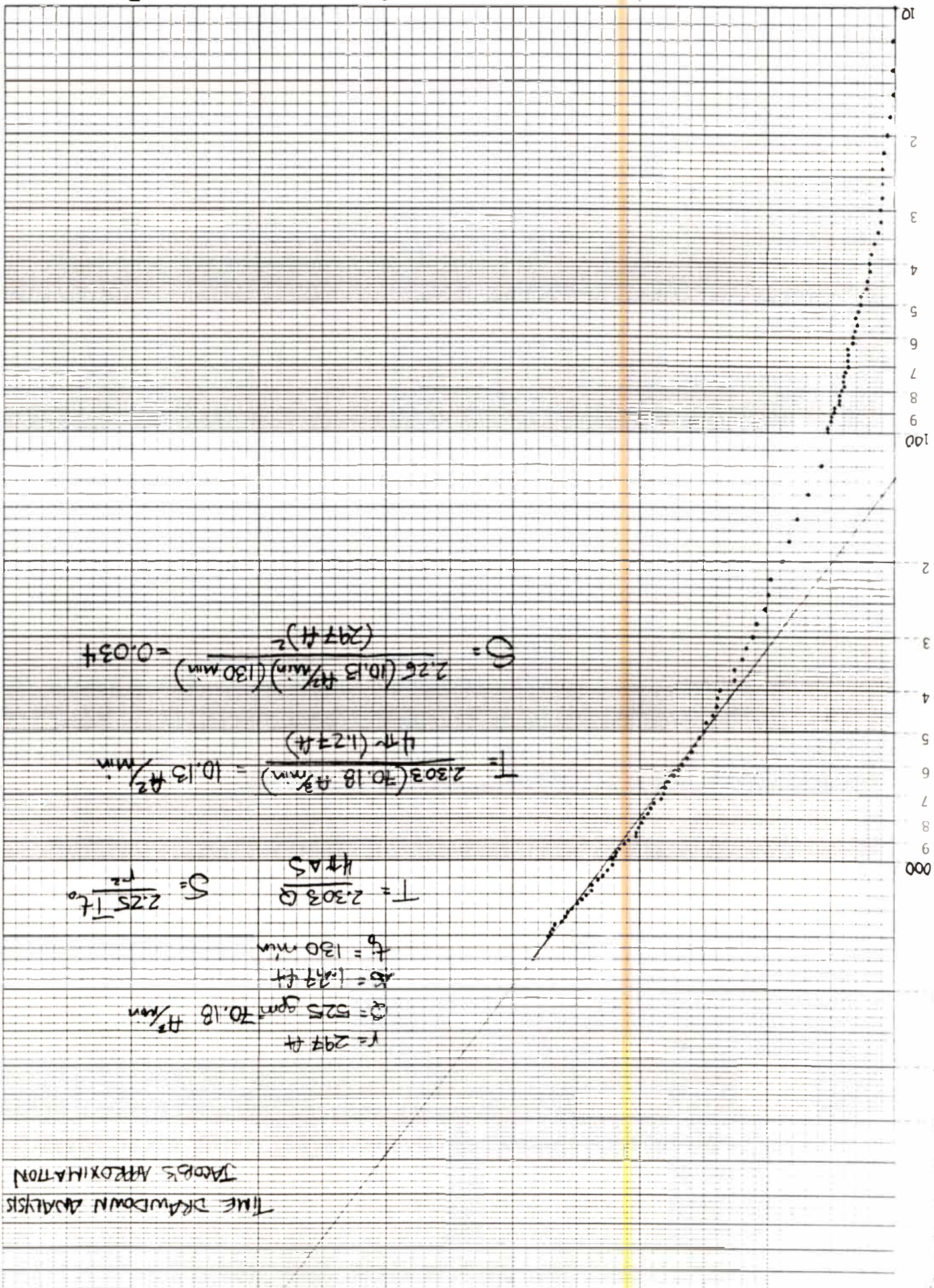
$$S = \frac{2.25 T f_0}{r^2}$$

$$T = \frac{2.303 (74.19 \frac{\text{ft}^3}{\text{min}})}{4\pi (0.97 \text{ ft})} = 11.02 \frac{\text{ft}^3}{\text{min}}$$

$$S = \frac{2.25 (11.02 \frac{\text{ft}^3}{\text{min}}) (280 \text{ mm})}{(102.4)^2} = 0.849$$



units



MW-H55 (Phase II A)

10 000

1000

100

10

10

10

10

10

10 000

Drawdown, S (ft)

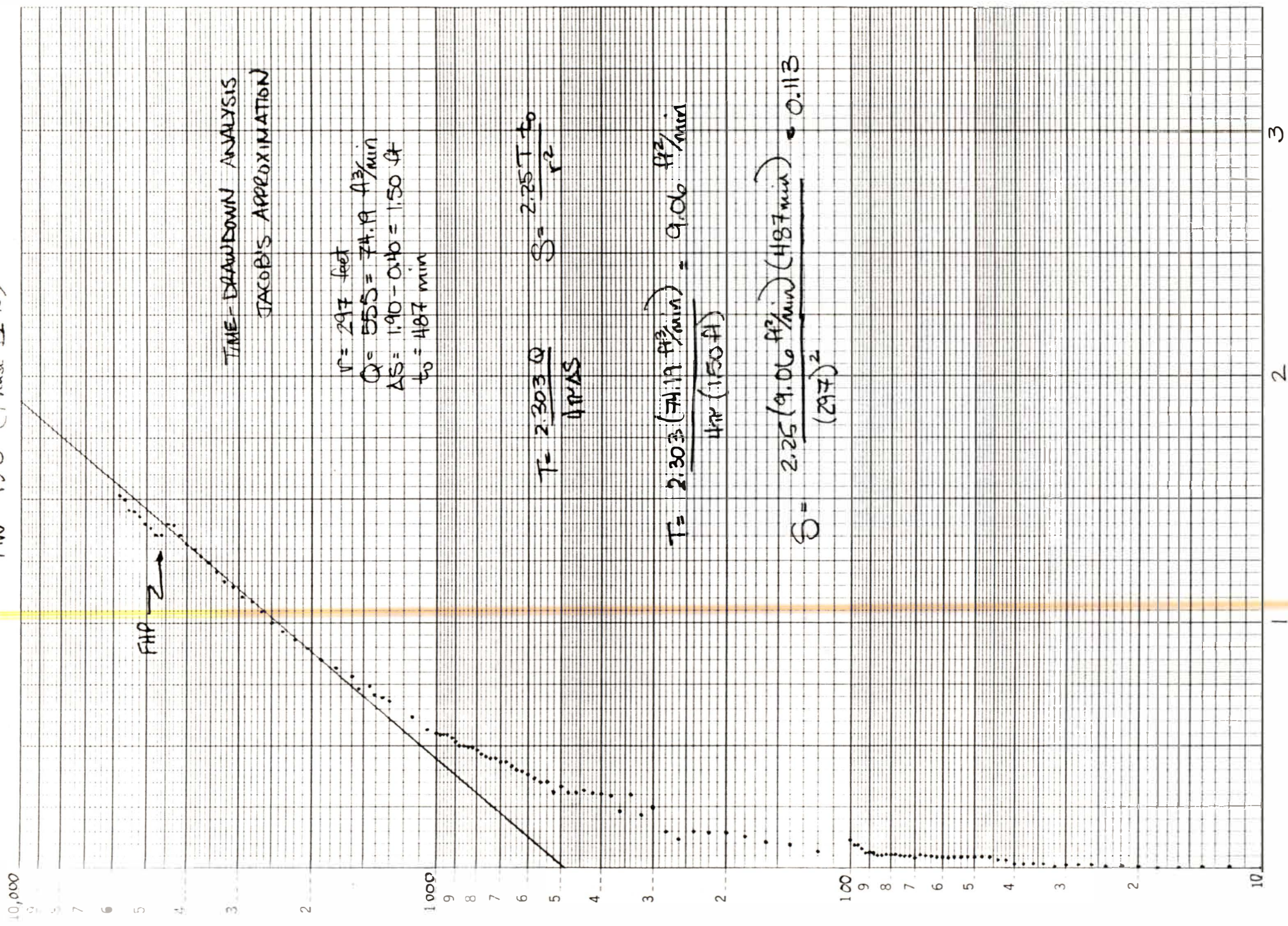
3

2

1



MW-45 S (Phase IV B)



TIME-DRAWDOWN ANALYSIS  
JACOBI'S APPROXIMATION

$$r = 297 \text{ feet}$$

$$Q = 555 = 74.19 \text{ ft}^3/\text{min}$$

$$AS = 1.90 - 0.10 = 1.50 \text{ ft}$$

$$t_0 = 487 \text{ min}$$

$$T = \frac{2.303 Q}{4\pi AS}$$

$$S = \frac{2.25 T t_0}{r^2}$$

$$T = \frac{2.303 (74.19 \text{ ft}^3/\text{min})}{4\pi (1.50 \text{ ft})} = 9.06 \text{ ft}^2/\text{min}$$

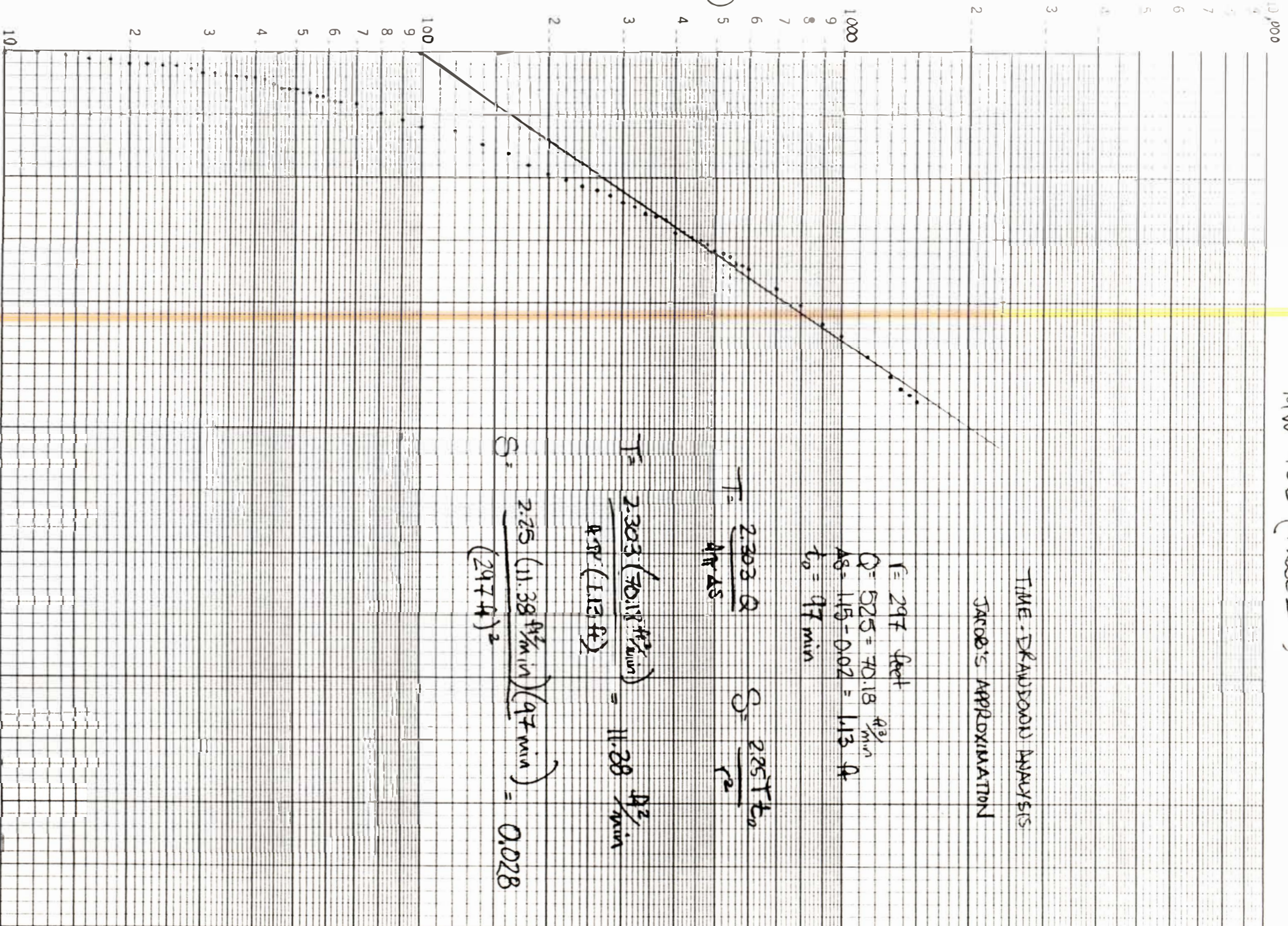
$$S = \frac{2.25 (9.06 \text{ ft}^2/\text{min}) (487 \text{ min})}{(297)^2} = 0.113$$



# MW-45B (Phase II A)

46 5490

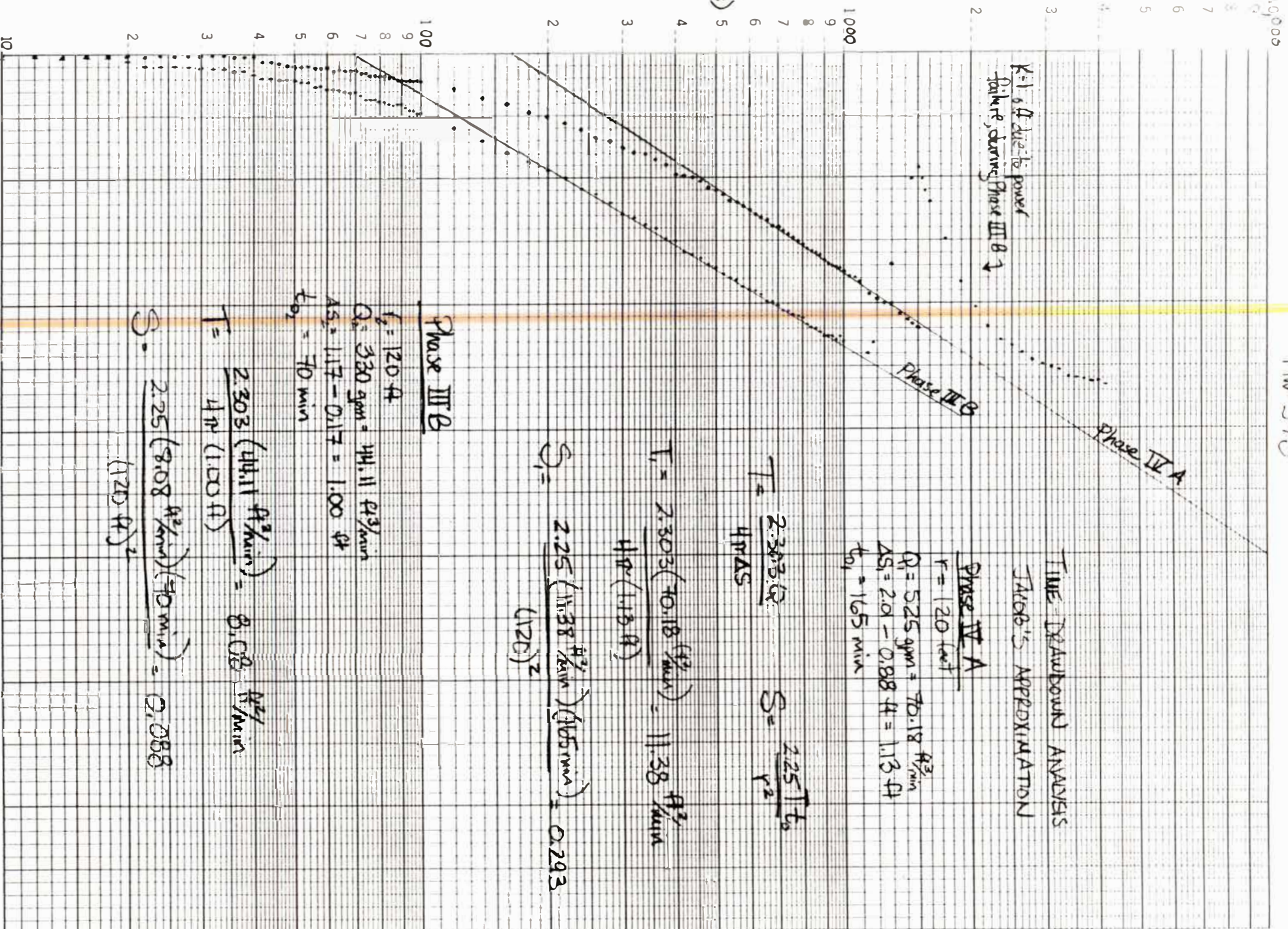
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KEUFFEL & ESSER CO. MADE IN U.S.A.











MW-575

## TIME DRAWDOWN ANALYSIS

### JACOBI'S APPROXIMATION

### Phase IV A

$$r = 20 \text{ feet}$$

$$Q_1 = 525 \text{ gpm} = 70.18 \frac{\text{ft}^3}{\text{min}}$$

$$\Delta S_1 = 2.0 - 0.88 \text{ kJ} = 1.13 \text{ kJ}$$

$$t_{01} = 165 \text{ min}$$

$$S = \frac{2.25 T_0}{r^2}$$

$$T_1 = \frac{2.303 \left( 70.18 \frac{^\circ\text{F}}{\text{min}} \right)}{4R(1.139)} = 11.38 \frac{^\circ\text{F}}{\text{min}}$$

$$S_1 = \frac{2.25 \left( \ln 38 \frac{\text{ft}}{\text{min}} \right) \left( 0.05 \text{ min} \right)}{(120)^2} = 0.293$$

### Phase III B

$$= 120 \text{ ft}$$

$$Q = 330 \text{ g/min} = 44.11 \text{ ft}^3/\text{min}$$

$$AS = 1.17 - 0.17 = 1.00 \text{ ft}$$

$$t_{p_2} = 70 \text{ min}$$

$$T = \frac{2303 \left( 44.1 \frac{\text{g}}{\text{min}} \right)}{4\pi (1.50 \text{ ft})} = 8.08 \frac{\text{N}^2}{\text{ft} \cdot \text{min}}$$

$$S = \frac{2.25 (8.08 \text{ ft}^2/\text{min}) (\frac{70 \text{ min}}{120})}{(120 \text{ ft})^2} = 0.088$$

Down 5 (first)

2

(ω)



46 5490

MW-57D

K-1 off due to power failure  
during Phase III B

TIME-DRAWDOWN ANALYSIS

JACOBI'S APPROXIMATION

Phase IV A

$$\begin{aligned} r &= 120 \text{ feet} \\ Q &= 525 \text{ gpm} \rightarrow 70.125 \text{ ft}^3/\text{min} \\ AS &= 1.19 - 0.111 = 1.05 \text{ ft} \\ t_0 &= 74 \text{ min} \end{aligned}$$

$$T = \frac{2.303 Q}{4\pi r AS} \quad S = \frac{2.25 T t_0}{r^2}$$

$$T = \frac{2.303 (70.125 \text{ ft}^3/\text{min})}{4\pi (120 \text{ ft})^2} = 12.225 \text{ ft}^3/\text{min}$$

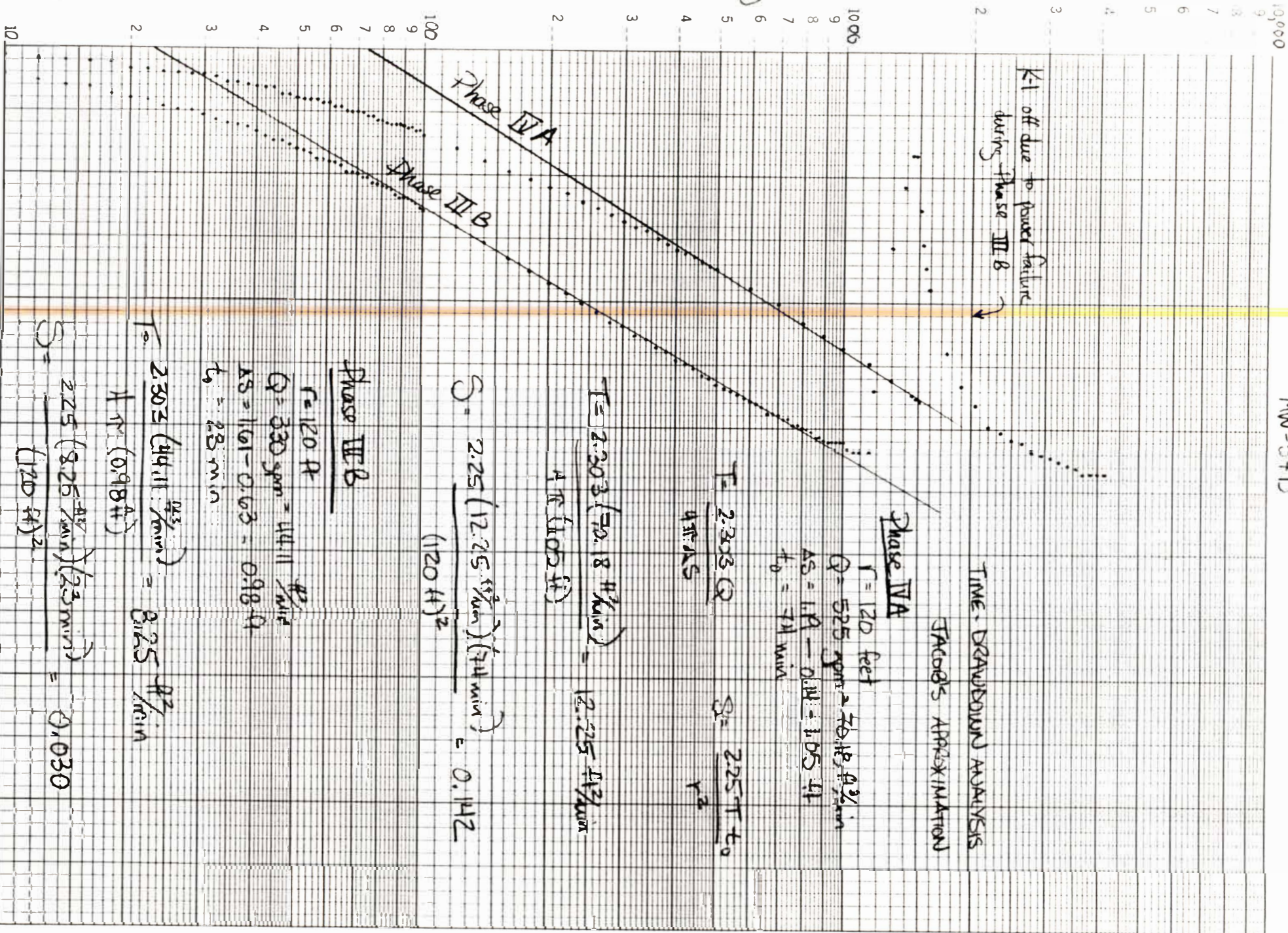
$$S = \frac{2.25 (12.225 \text{ ft}^3/\text{min}) (74 \text{ min})}{(120 \text{ ft})^2} = 0.142$$

Phase III B

$$\begin{aligned} r &= 120 \text{ ft} \\ Q &= 330 \text{ gpm} = 44.11 \text{ ft}^3/\text{min} \\ AS &= 1.61 - 0.63 = 0.98 \text{ ft} \\ t_0 &= 23 \text{ min} \end{aligned}$$

$$T = \frac{2.303 (44.11 \text{ ft}^3/\text{min})}{4\pi (120 \text{ ft})^2} = 8.25 \text{ ft}^3/\text{min}$$

$$S = \frac{2.25 (8.25 \text{ ft}^3/\text{min}) (23 \text{ min})}{(120 \text{ ft})^2} = 0.030$$



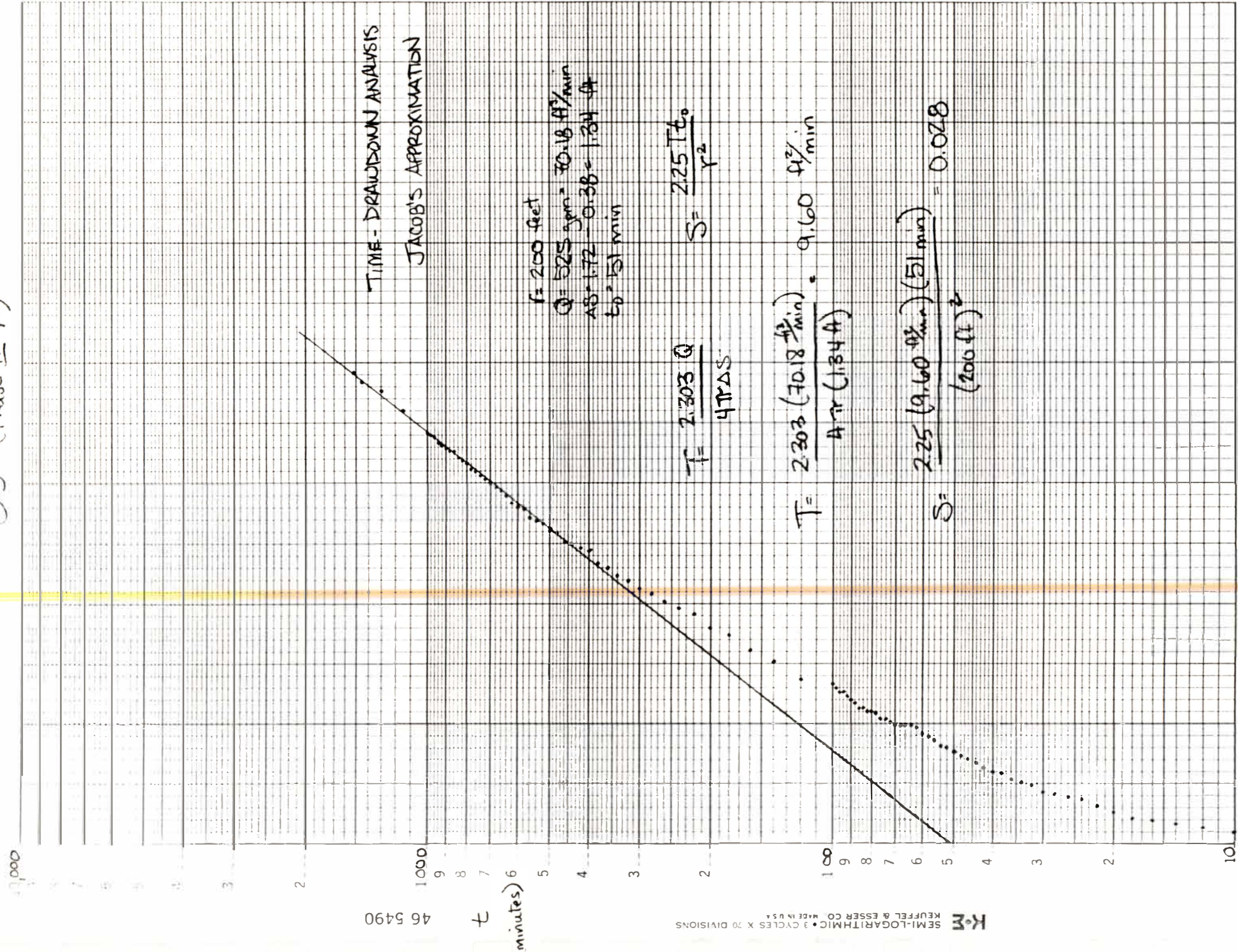
Drawdown S (feet)

2

3



# D-3 (Phase II A)



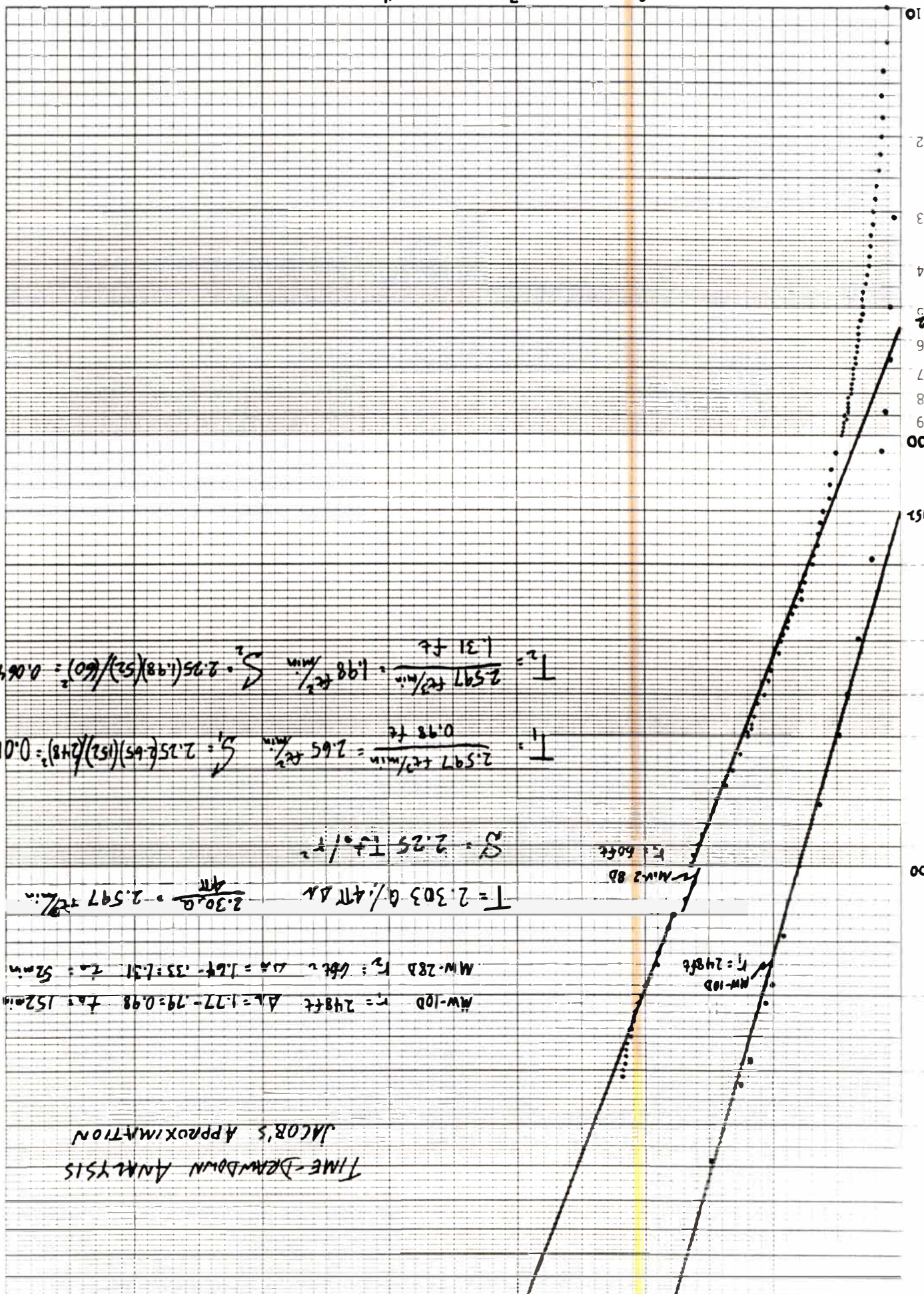
1 Drawdown, s (feet) 2 3



$t_1$   
minutes

$t_0 = 152$

$t_0 = 52$



TIME-DRAWDOWN ANALYSIS  
JACOB'S APPROXIMATION

MW-100  $r = 248 ft$   $\Delta h = 1.77 - .79 = 0.98$   $t_0 = 152 min$   
 MW-280  $r = 66 ft$   $\Delta h = 1.64 - .33 = 1.31$   $t_0 = 52 min$

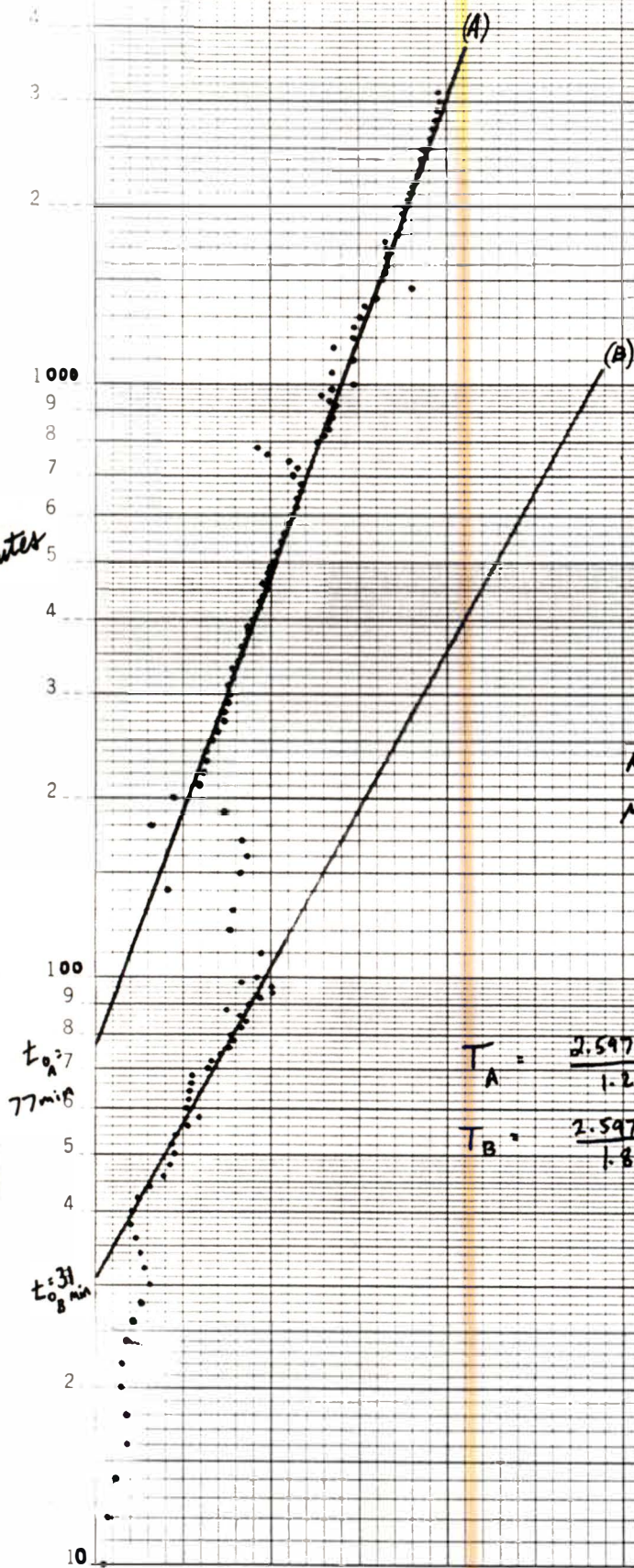
$\Delta h$ , feet



46 5490

$t$ ,  
minutes

MW-30D  
TIME-DRAWDOWN ANALYSIS  
JACOB'S APPROXIMATION



|           |                       |                                 |                        |
|-----------|-----------------------|---------------------------------|------------------------|
| MW-30D(A) | $r_A = 50 \text{ ft}$ | $\Delta h = 1.4 - 1.5 = 1.25$   | $t_0 = 77 \text{ min}$ |
| MW-30D(B) | $r_B = 50 \text{ ft}$ | $\Delta h = 2.83 - 0.97 = 1.86$ | $t_0 = 31 \text{ min}$ |

$$T = \frac{2.303 Q}{4\pi \Delta h} \quad \frac{2.303 Q}{4\pi} = \frac{32.63}{12.57} = 2.597 \text{ ft}^3/\text{min}$$

$$S = 2.25 T t_0 / r^2$$

$$T_A = \frac{2.597 \text{ ft}^3/\text{min}}{1.25 \text{ ft}} = 2.08 \frac{\text{ft}^3}{\text{min}} \quad S_A = \frac{2.25 (2.08) (77)}{(50)^2} = 0.144$$

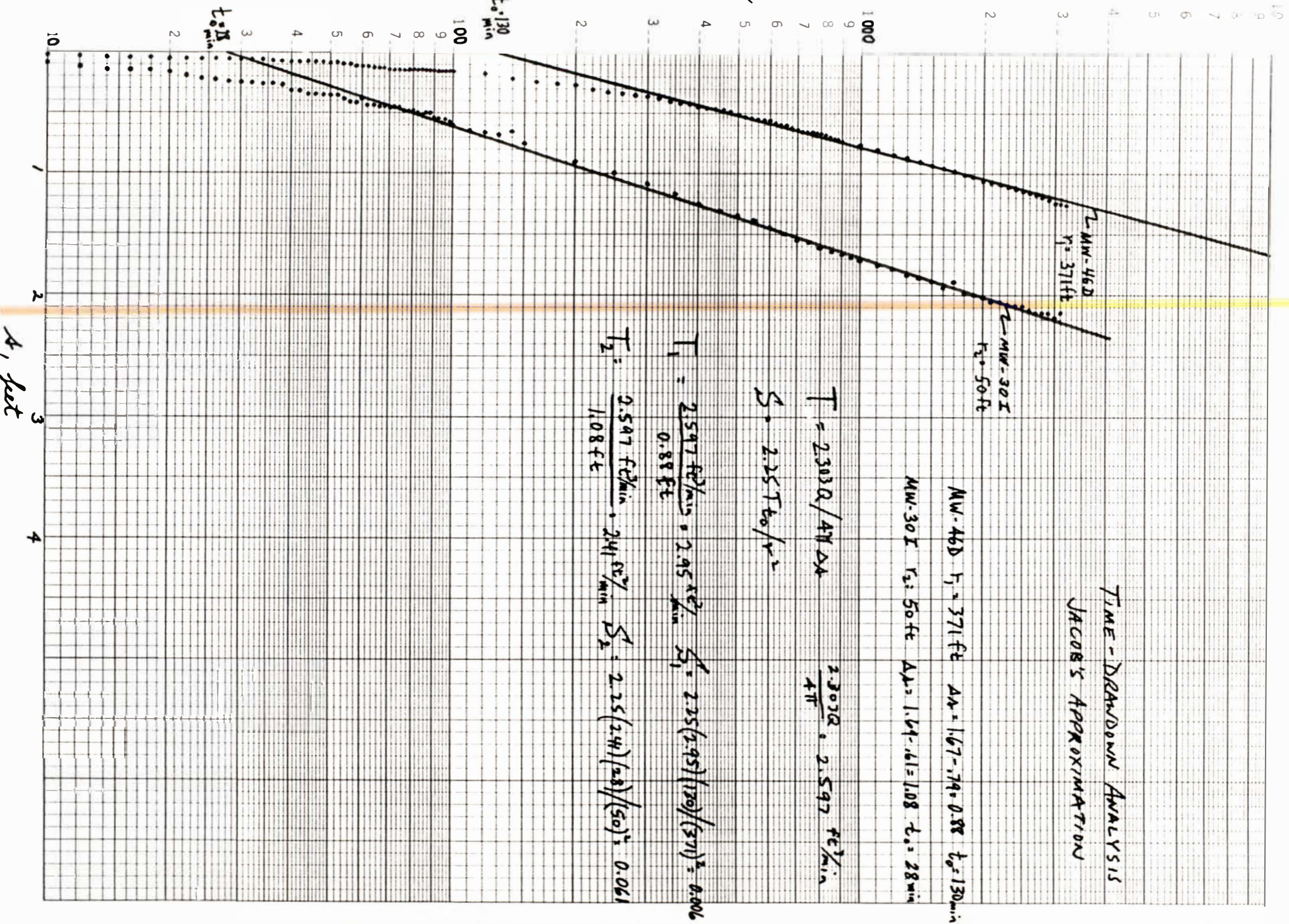
$$T_B = \frac{2.597 \text{ ft}^3/\text{min}}{1.86 \text{ ft}} = 1.40 \frac{\text{ft}^3}{\text{min}} \quad S_B = \frac{2.25 (1.40) (31)}{(50)^2} = 0.039$$

$s$ , feet



46 5490

$t_1$   $t_0$





t  
minutes

t<sub>0</sub> = 192

1000

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46 5490

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KEUFFEL & ESSER CO. MADE IN U.S.A.

$t$   
(minutes)

$t_s = 400$

$t_s = 85$

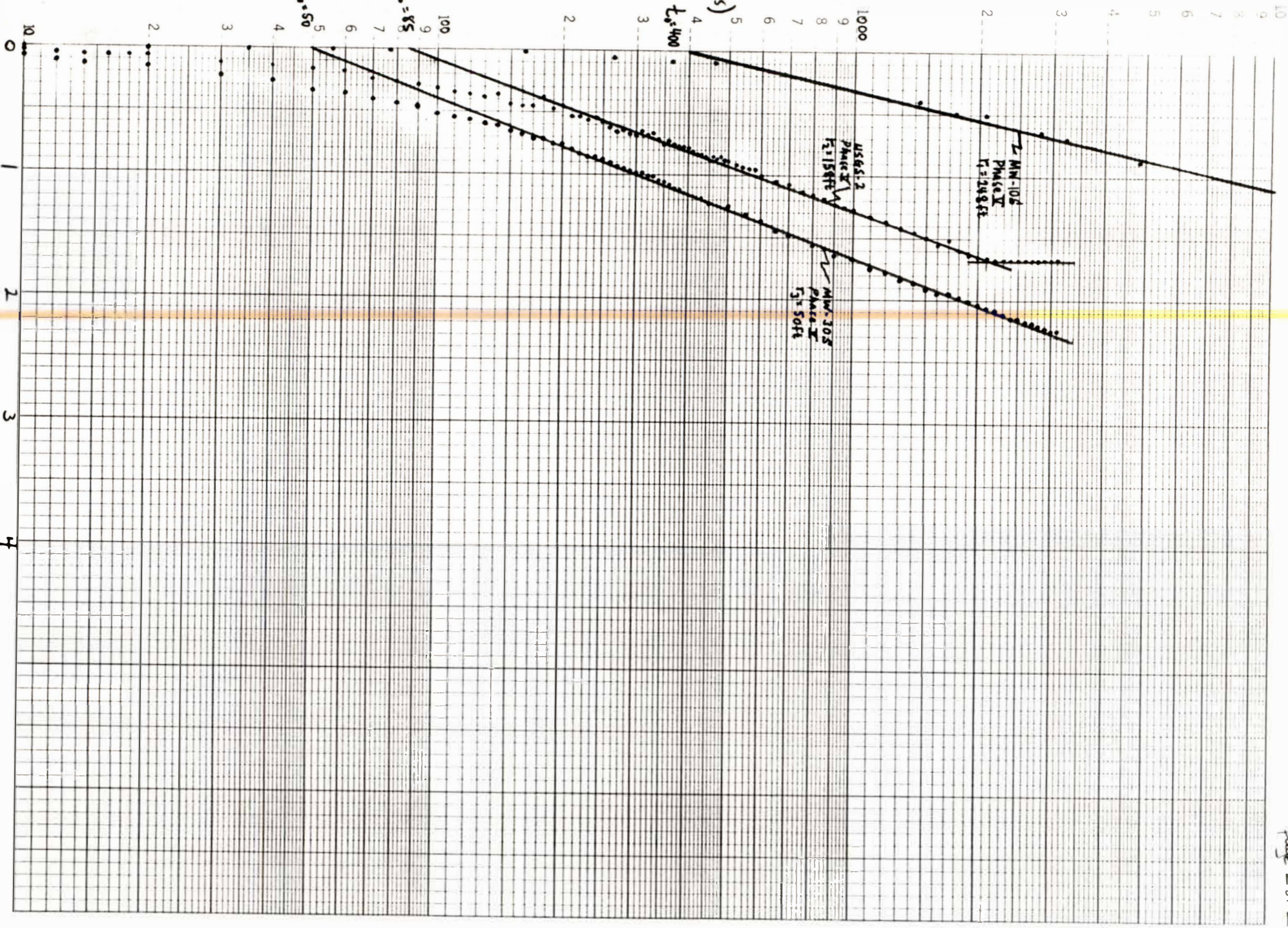
$t_s = 50$

✓ MN-105  
Phase I  
 $t_s = 248 \text{ ft}$

✓ US65.2  
Phase I  
 $t_s = 158 \text{ ft}$

✓ MW-308  
Phase I  
 $t_s = 50 \text{ ft}$

$A$  (feet)



## ***APPENDIX E***

***Time – Drawdown Plots  
Theis Solution (Aqtesolv)***



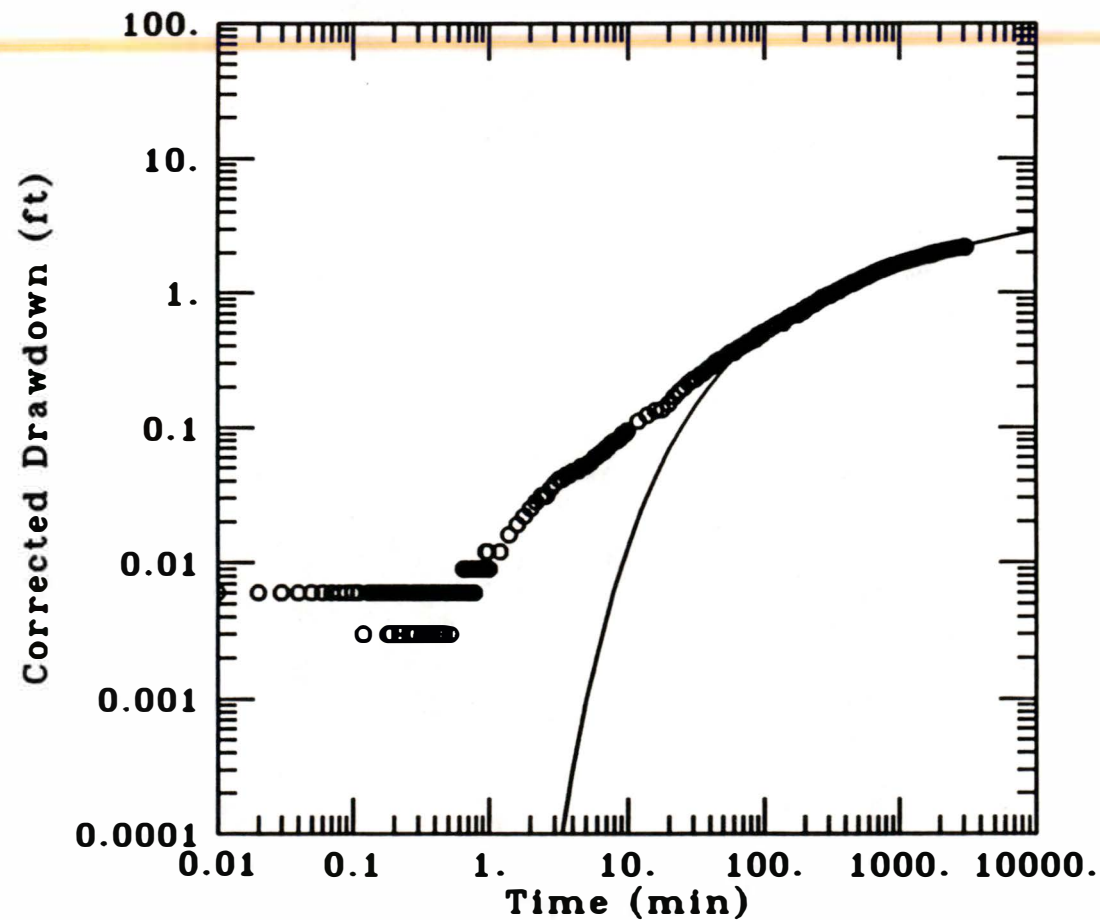
**MALCOLM PIRNIE, INC.**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

**28S-P5**



DATA SET:

a28sp5.dat

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K2/M2

OBS. WELL:

MW-28S

ESTIMATED PARAMETERS:

$T = 4.535 \text{ ft}^2/\text{min}$

$S = 0.1591$

TEST DATA:

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 60. \text{ ft}$

$b = 60. \text{ ft}$

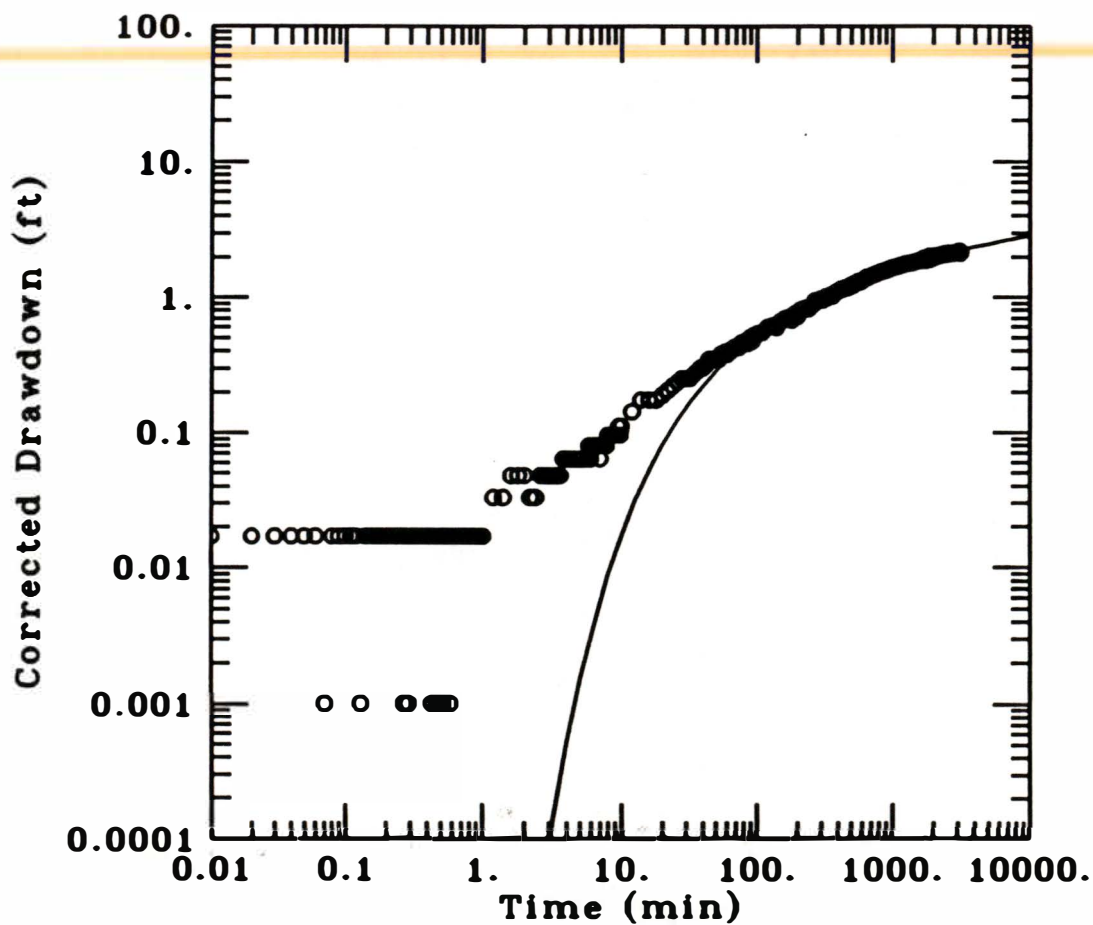
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 28I-P5



**DATA SET:**

a28ip5.dat

11/09/92

**AQUIFER TYPE:**

Unconfined

**SOLUTION METHOD:**

Theis

**TEST DATE:**

8/92

**TEST WELL:**

K2/M2

**OBS. WELL:**

MW-28I

**ESTIMATED PARAMETERS:**

$T = 4.674 \text{ ft}^2/\text{min}$

$S = 0.1468$

**TEST DATA:**

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 60. \text{ ft}$

$b = 60. \text{ ft}$



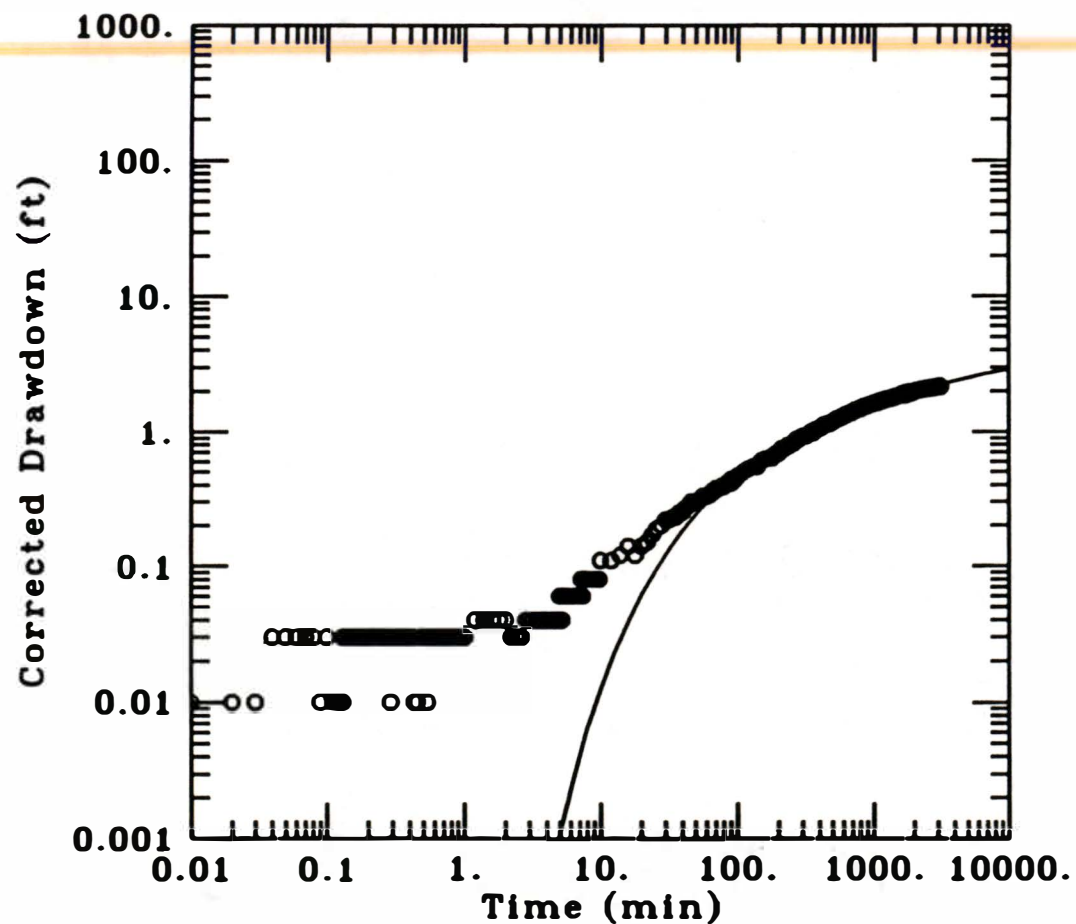
**MALCOLM PIRNIE, INC.**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 28D-P5



**DATA SET:**

A28DP5.DAT

11/09/92

**AQUIFER TYPE:**

Unconfined

**SOLUTION METHOD:**

Theis

**TEST DATE:**

8/92

**TEST WELL:**

K2/M2

**OBS. WELL:**

MW-28D

**ESTIMATED PARAMETERS:**

$T = 4.425 \text{ ft}^2/\text{min}$

$S = 0.1488$

**TEST DATA:**

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 70. \text{ ft}$

$b = 60. \text{ ft}$

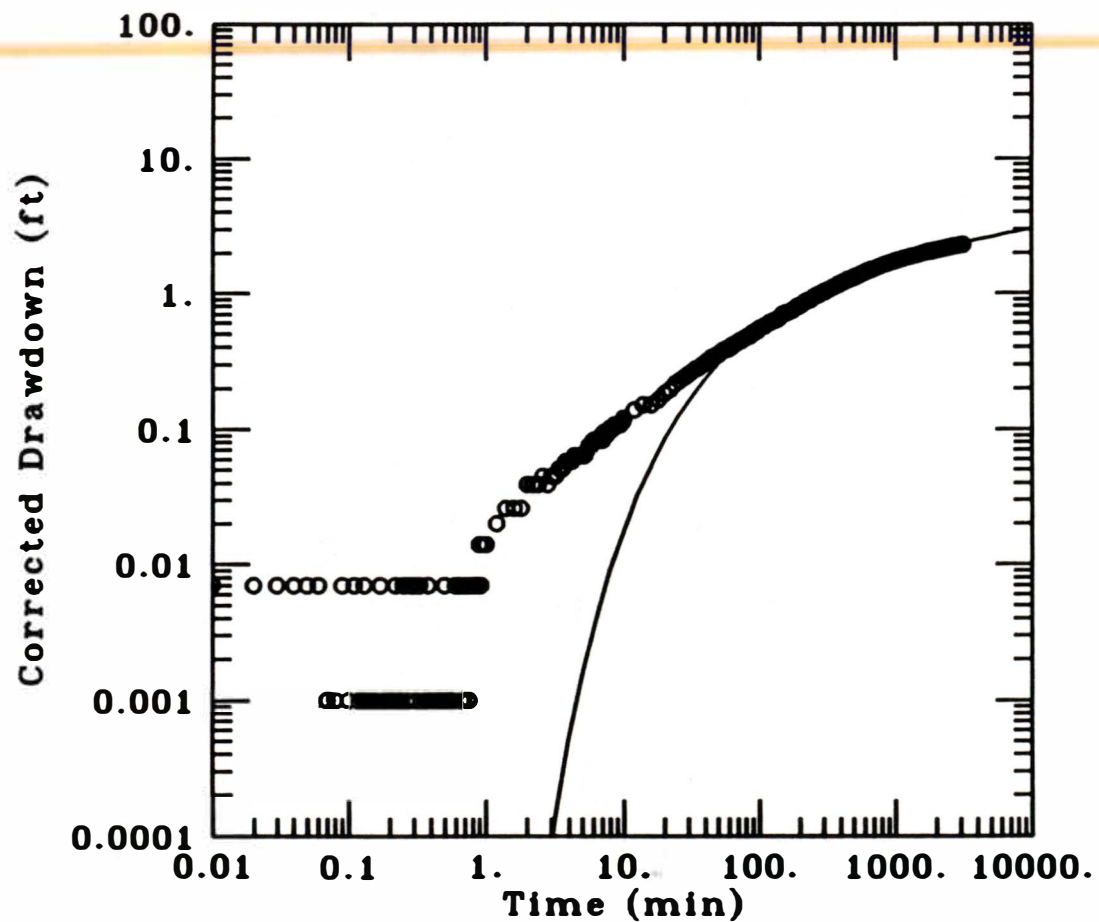
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 29S-P5



DATA SET:

A29SP5.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K2/M2

OBS. WELL:

MW-29S

ESTIMATED PARAMETERS:

$T = 4.432 \text{ ft}^2/\text{min}$

$S = 0.1402$

TEST DATA:

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 60. \text{ ft}$

$b = 60. \text{ ft}$

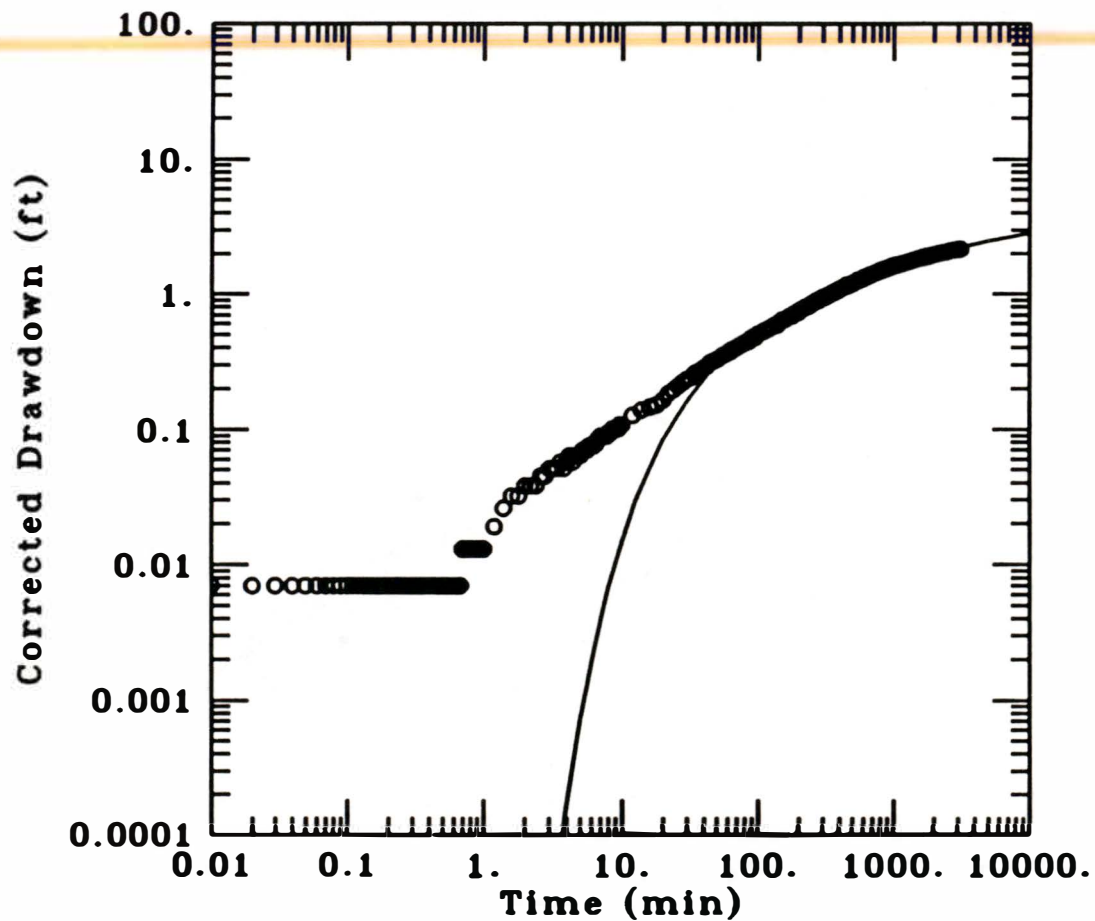
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 29I-P5



DATA SET:

A29IP5.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K2/M2

OBS. WELL:

MW-29I

ESTIMATED PARAMETERS:

$T = 4.828 \text{ ft}^2/\text{min}$

$S = 0.5$

TEST DATA:

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 30. \text{ ft}$

$b = 60. \text{ ft}$

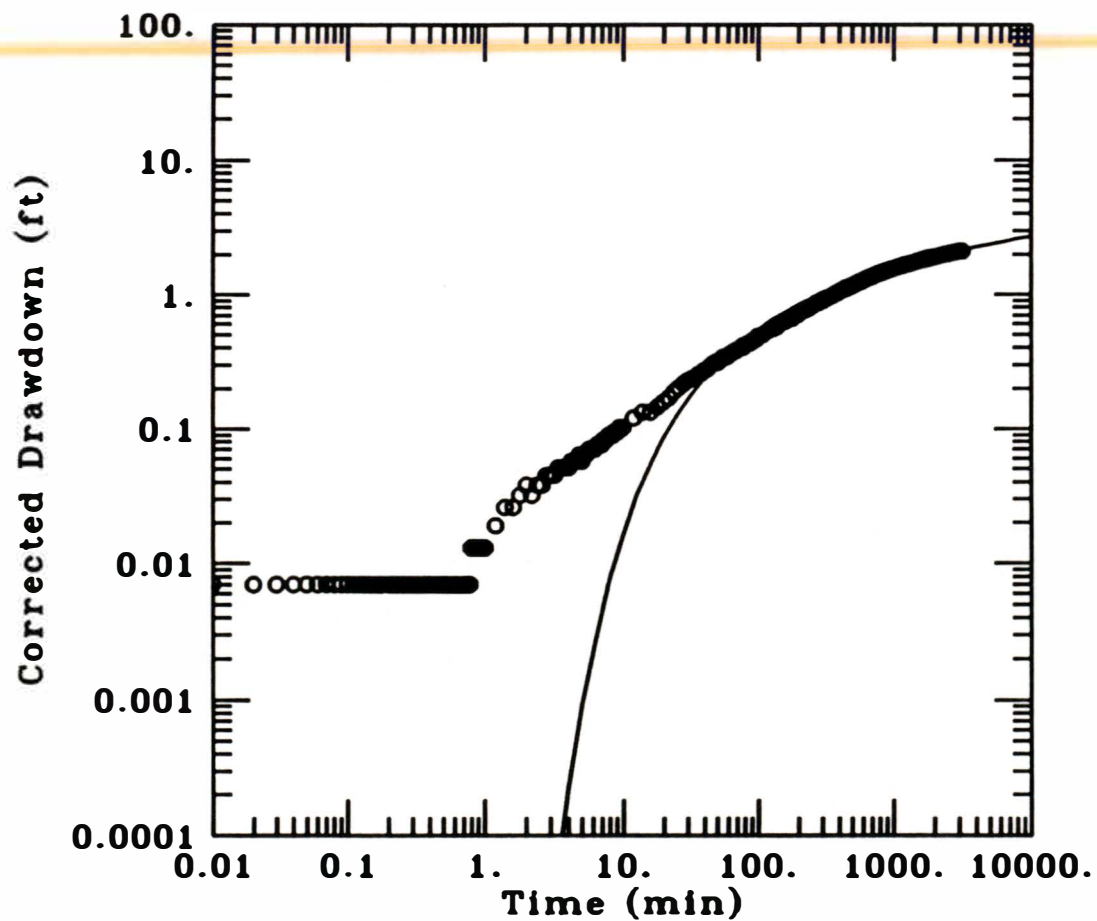
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 29D-P5



**DATA SET:**

A29DP5.DAT

11/09/92

**AQUIFER TYPE:**

Unconfined

**SOLUTION METHOD:**

Theis

**TEST DATE:**

8/92

**TEST WELL:**

K2/M2

**OBS. WELL:**

MW-29D

**ESTIMATED PARAMETERS:**

$T = 5.067 \text{ ft}^2/\text{min}$

$S = 0.5$

**TEST DATA:**

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 30. \text{ ft}$

$b = 60. \text{ ft}$

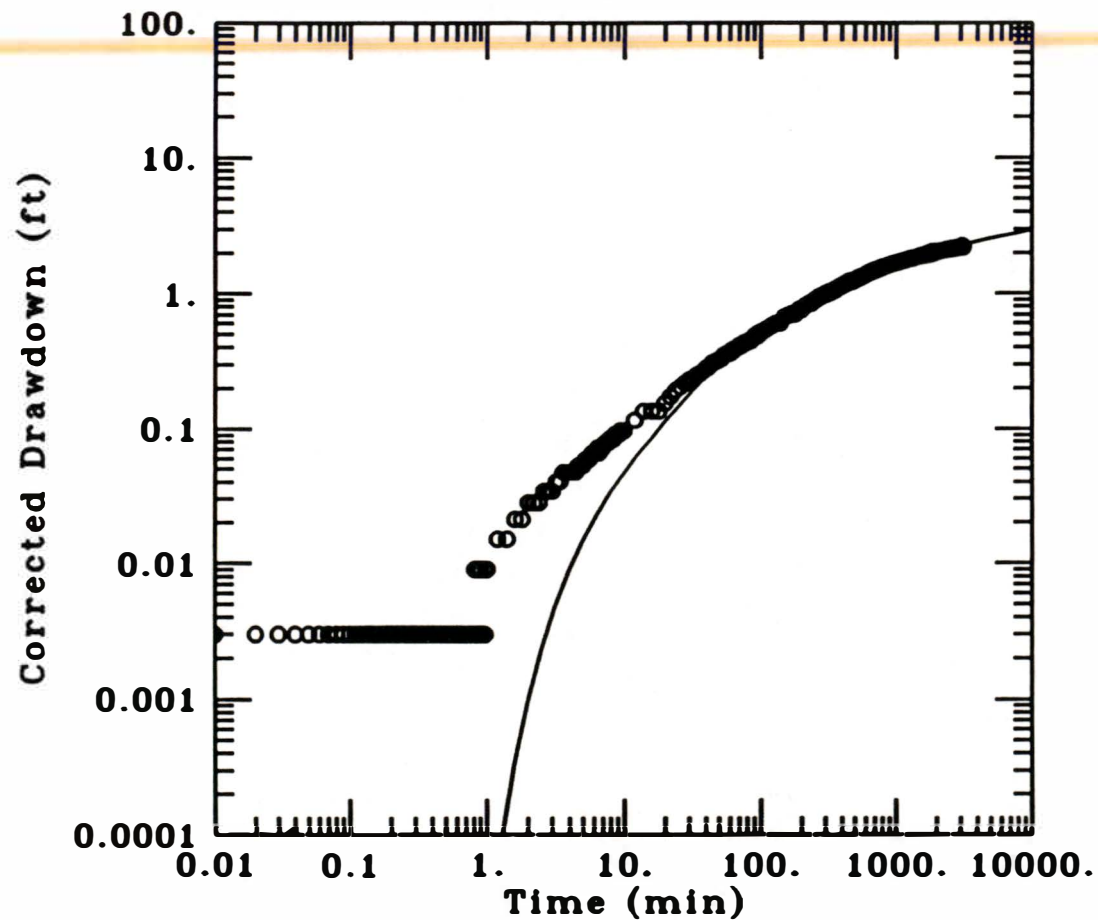
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

### 30S-P5



DATA SET:

A30SP5.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K2/M2

OBS. WELL:

MW-30S

ESTIMATED PARAMETERS:

$T = 4.458 \text{ ft}^2/\text{min}$

$S = 0.1799$

TEST DATA:

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 60. \text{ ft}$

$b = 60. \text{ ft}$



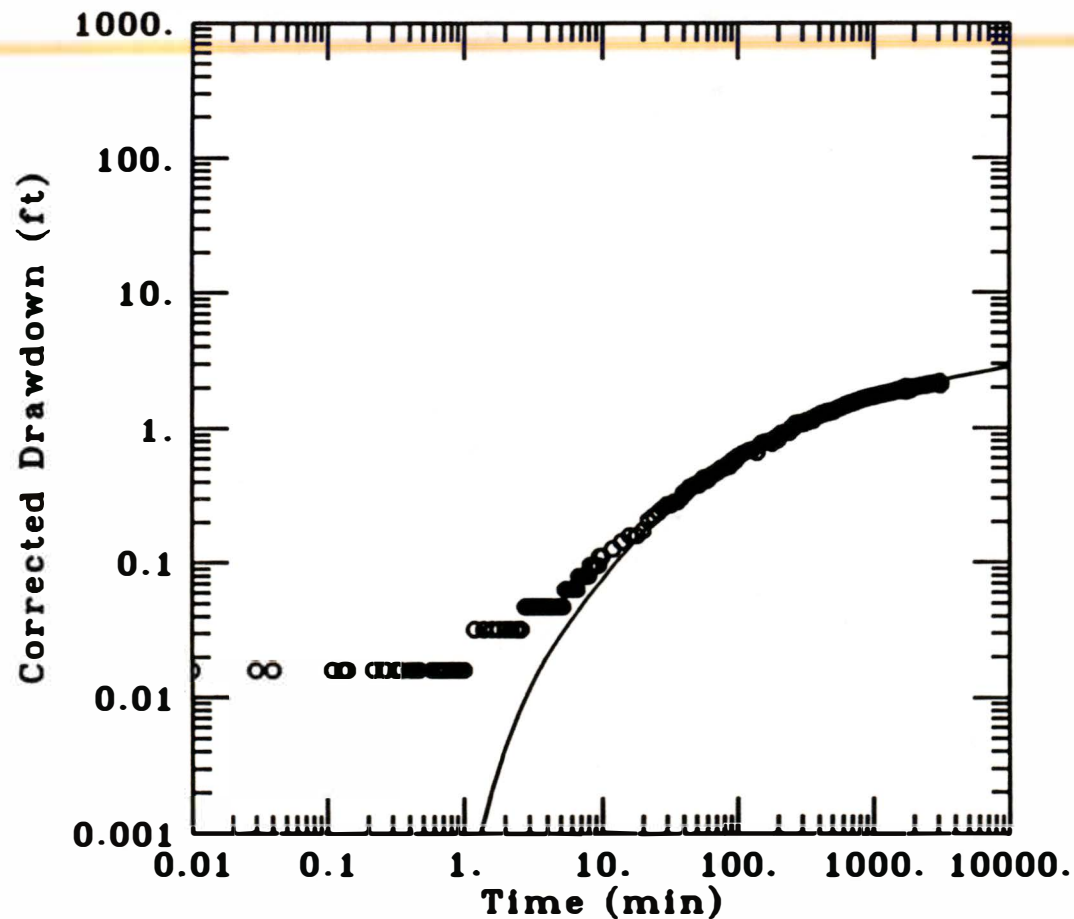
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 30I-P5



DATA SET:

A30IP5.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K2/M2

OBS. WELL:

MW-30I

ESTIMATED PARAMETERS:

$T = 5.042 \text{ ft}^2/\text{min}$

$S = 0.1291$

TEST DATA:

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 60. \text{ ft}$

$b = 60. \text{ ft}$

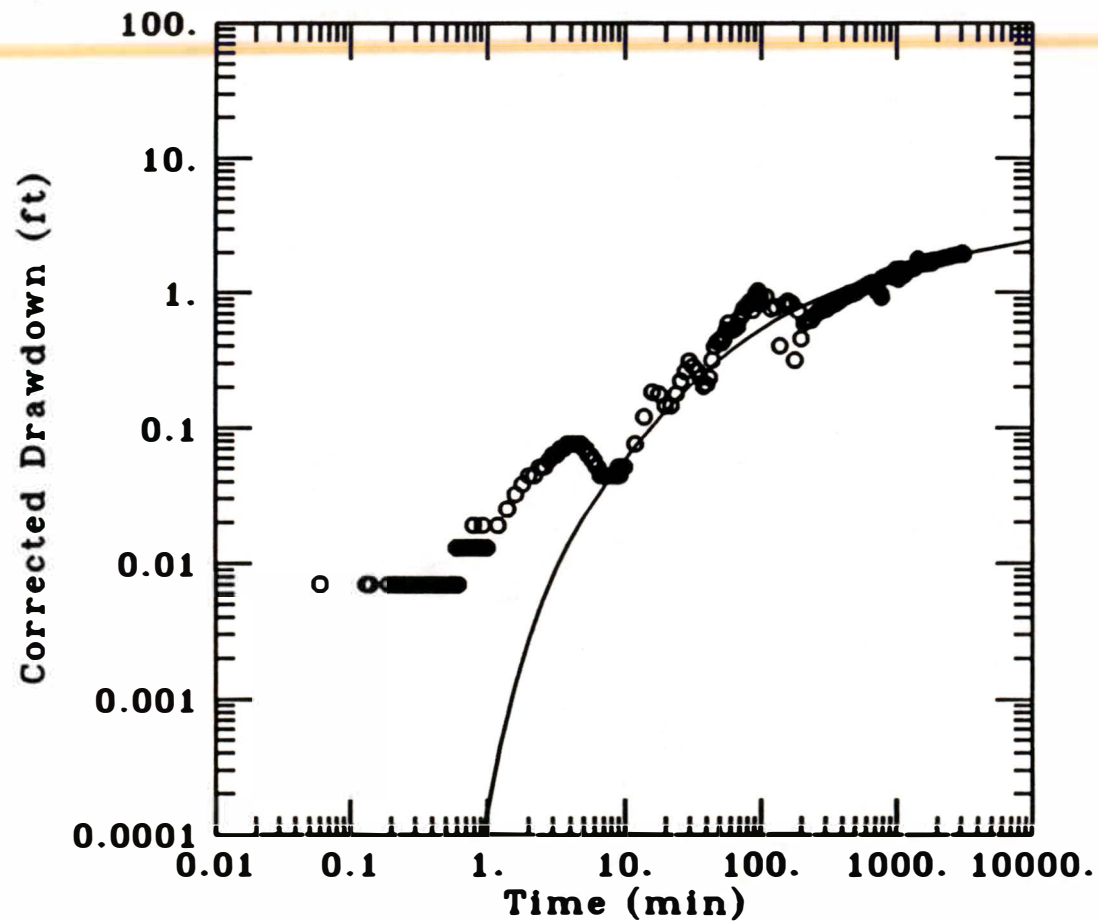
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

### 30D-P5



DATA SET:

A30DP5.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K2/M2

OBS. WELL:

MW-30D

ESTIMATED PARAMETERS:

$T = 5.739 \text{ ft}^2/\text{min}$

$S = 0.1623$

TEST DATA:

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 60. \text{ ft}$

$b = 60. \text{ ft}$

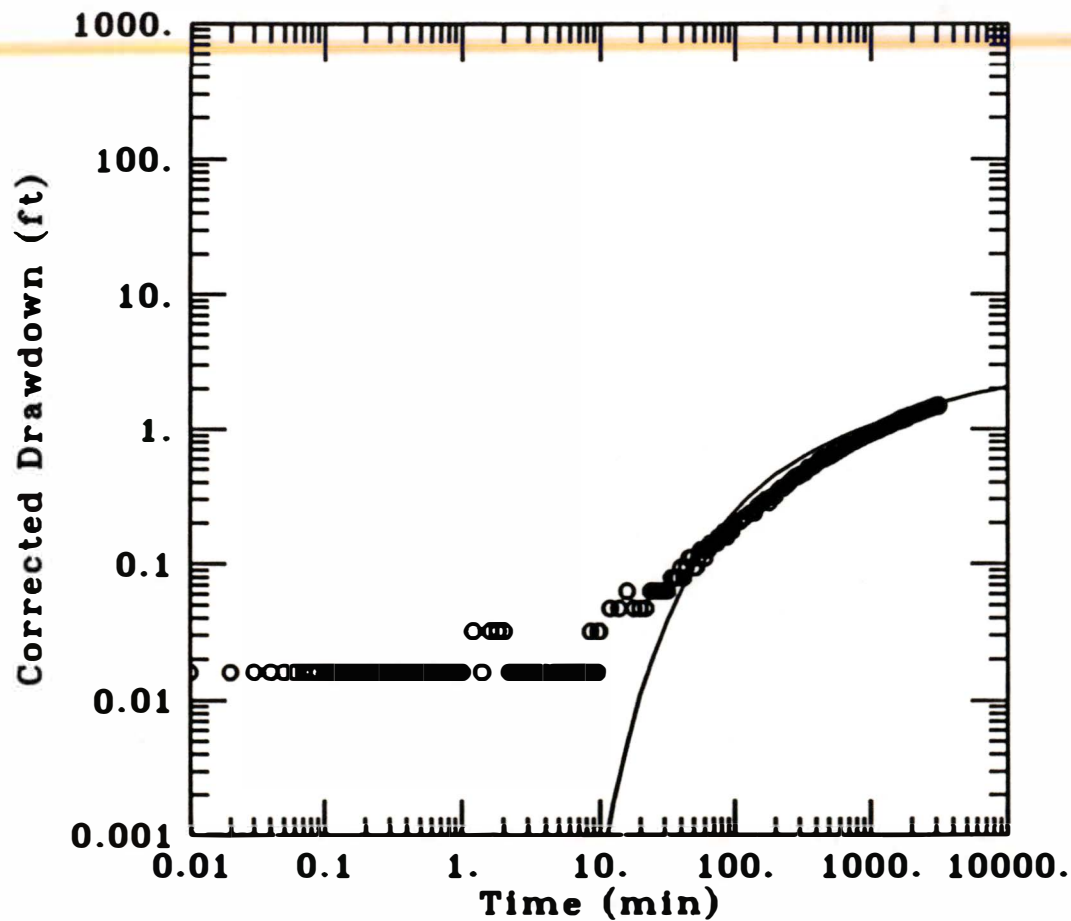
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 31S-P5



DATA SET:

A31SP5.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K2/M2

OBS. WELL:

MW-31S

ESTIMATED PARAMETERS:

$T = 5.716 \text{ ft}^2/\text{min}$

$S = 0.5$

TEST DATA:

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 50. \text{ ft}$

$b = 60. \text{ ft}$

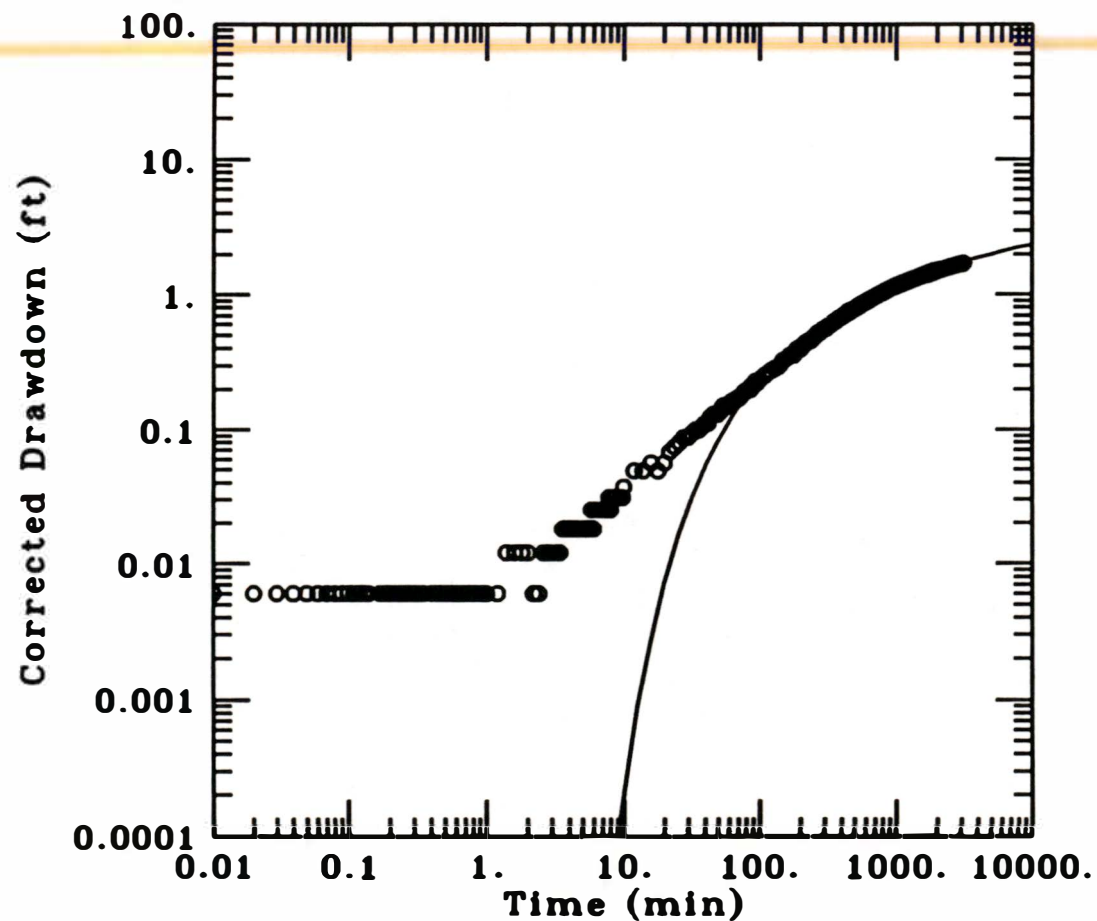
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

**31I-P5**



DATA SET:

A31IP5.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K2/M2

OBS. WELL:

MW-311

ESTIMATED PARAMETERS:

$T = 4.823 \text{ ft}^2/\text{min}$

$S = 0.5$

TEST DATA:

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 50. \text{ ft}$

$b = 60. \text{ ft}$

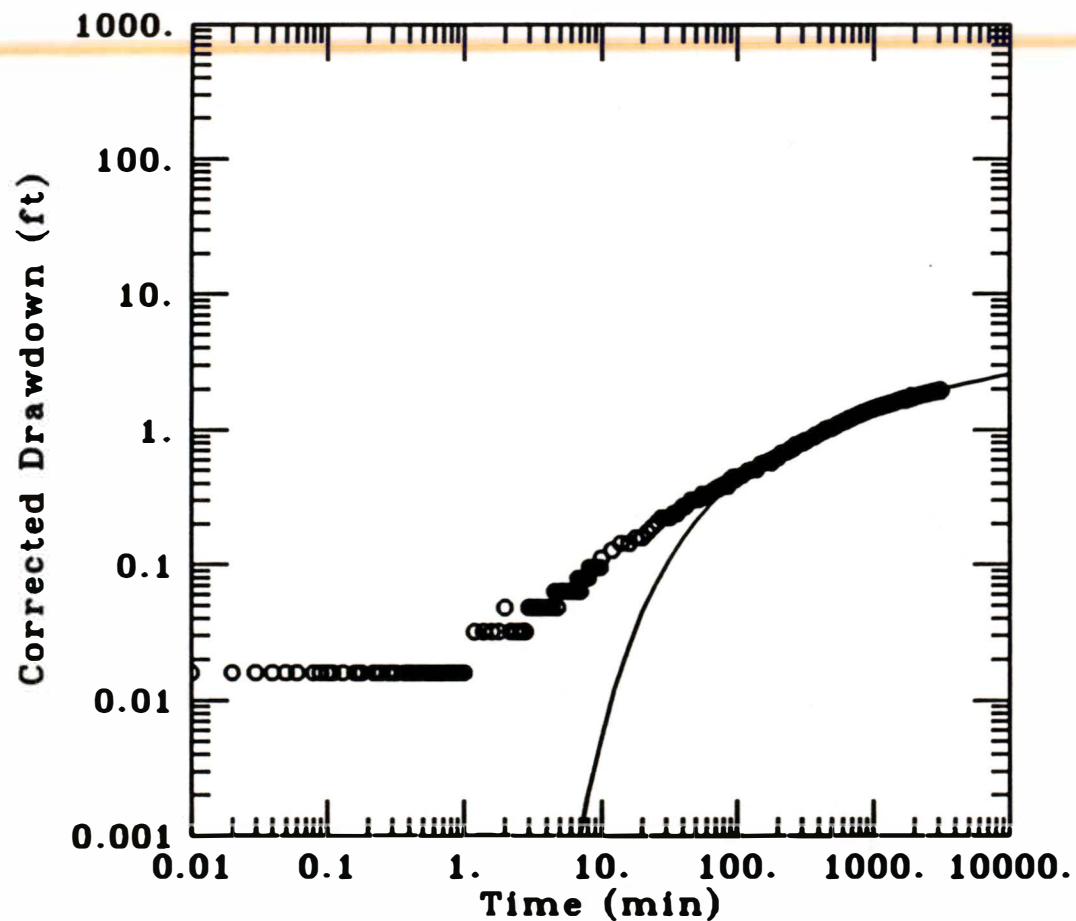
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 31D-P5



DATA SET:

A31DP5.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K2/M2

OBS. WELL:

MW-31D

ESTIMATED PARAMETERS:

$T = 5.044 \text{ ft}^2/\text{min}$

$S = 0.2785$

TEST DATA:

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 50. \text{ ft}$

$b = 60. \text{ ft}$



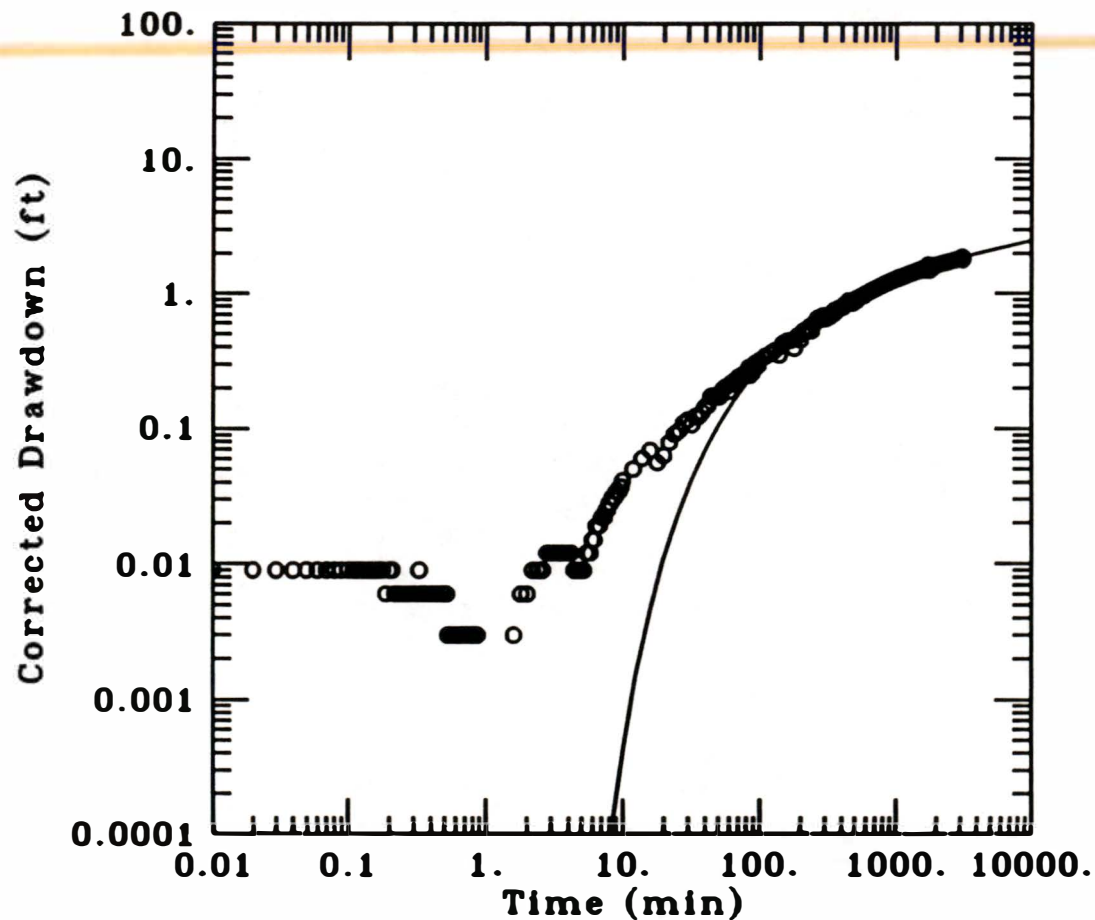
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## US2-P5



DATA SET:

AUS2P5.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K2/M2

OBS. WELL:

USGS-2

ESTIMATED PARAMETERS:

$T = 4.716 \text{ ft}^2/\text{min}$

$S = 0.03632$

TEST DATA:

$Q = 15.4 \text{ ft}^3/\text{min}$

$r = 165 \text{ ft}$

$b = 60 \text{ ft}$

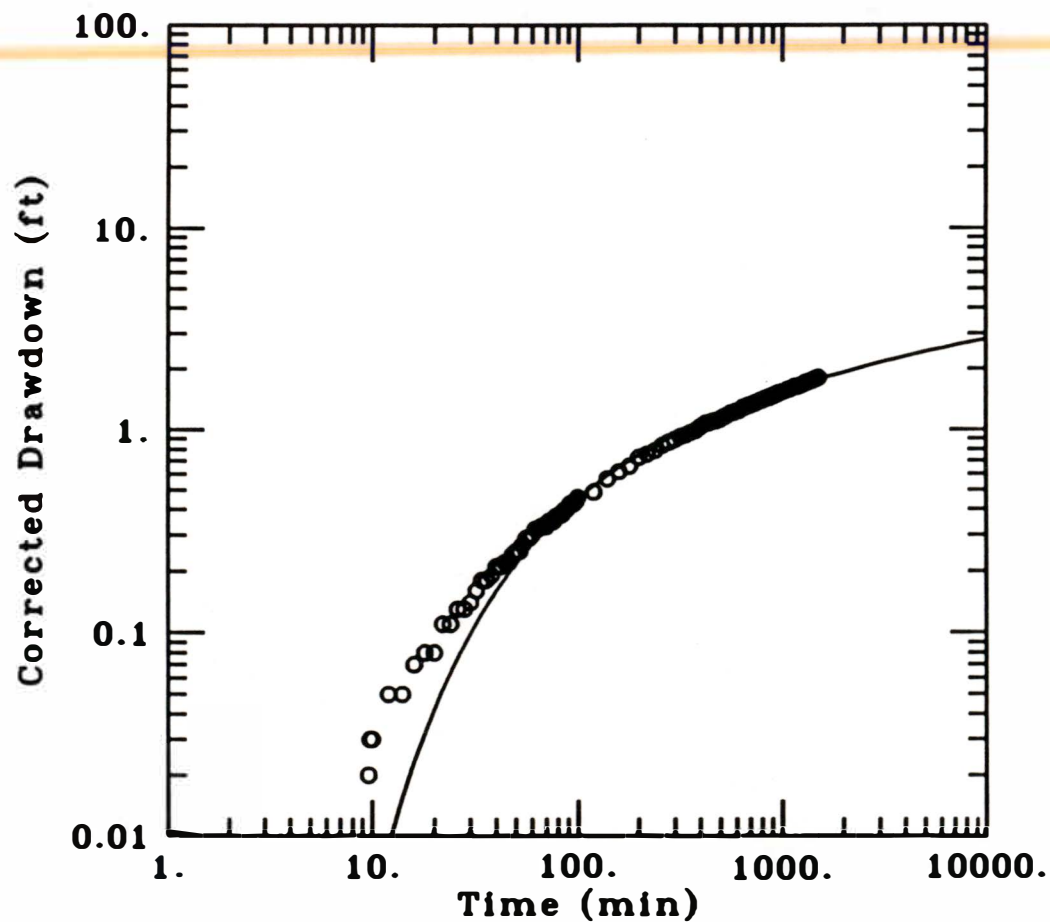
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 43S-P4A



DATA SET:  
A43SP4A.DAT  
11/09/92

AQUIFER TYPE:  
Unconfined  
SOLUTION METHOD:  
Theis  
TEST DATE:  
8/92  
TEST WELL:  
K1  
OBS. WELL:  
MW-43S

ESTIMATED PARAMETERS:  
 $T = 10.69 \text{ ft}^2/\text{min}$   
 $S = 0.1254$

TEST DATA:  
 $Q = 70.9 \text{ ft}^3/\text{min}$   
 $r = 105. \text{ ft}$   
 $b = 40. \text{ ft}$

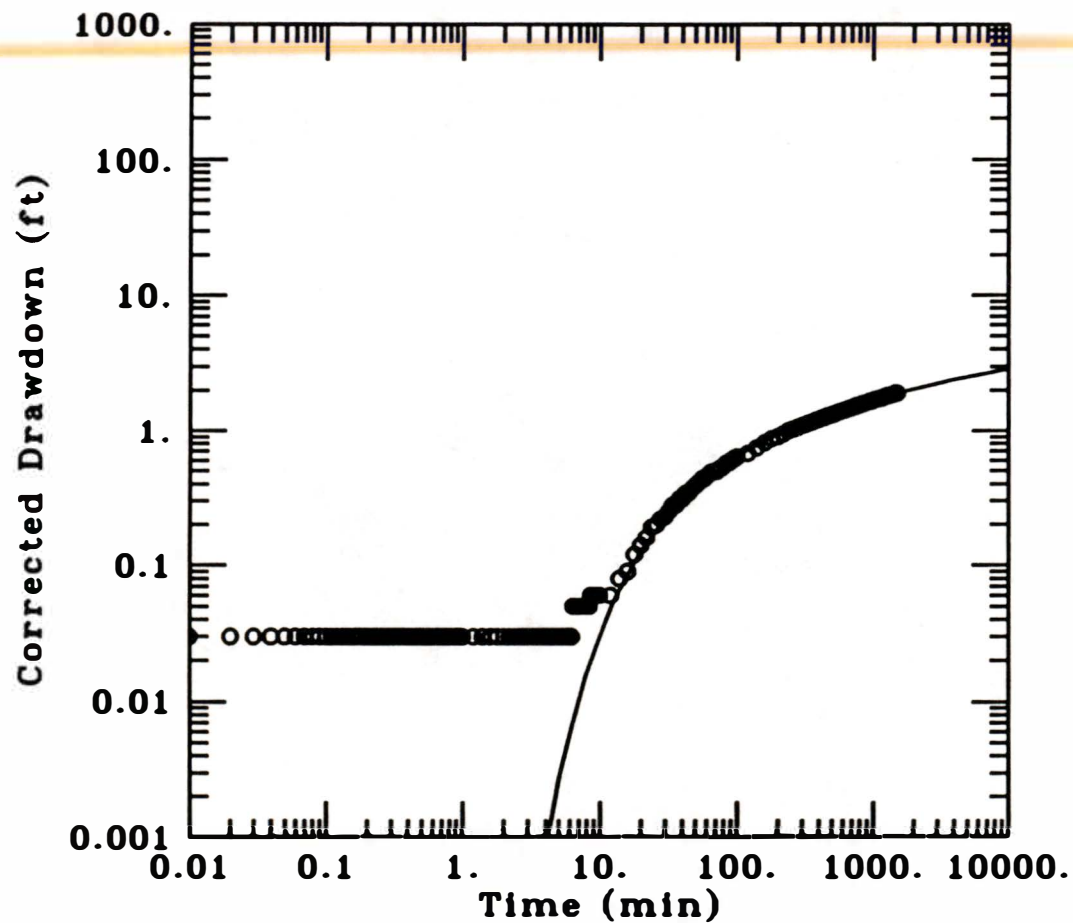
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 43D-P4A



DATA SET:

A43DP4A.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K1

OBS. WELL:

MW-43D

ESTIMATED PARAMETERS:

$T = 11.75 \text{ ft}^2/\text{min}$

$S = 0.07547$

TEST DATA:

$Q = 70.9 \text{ ft}^3/\text{min}$

$r = 105 \text{ ft}$

$b = 40 \text{ ft}$

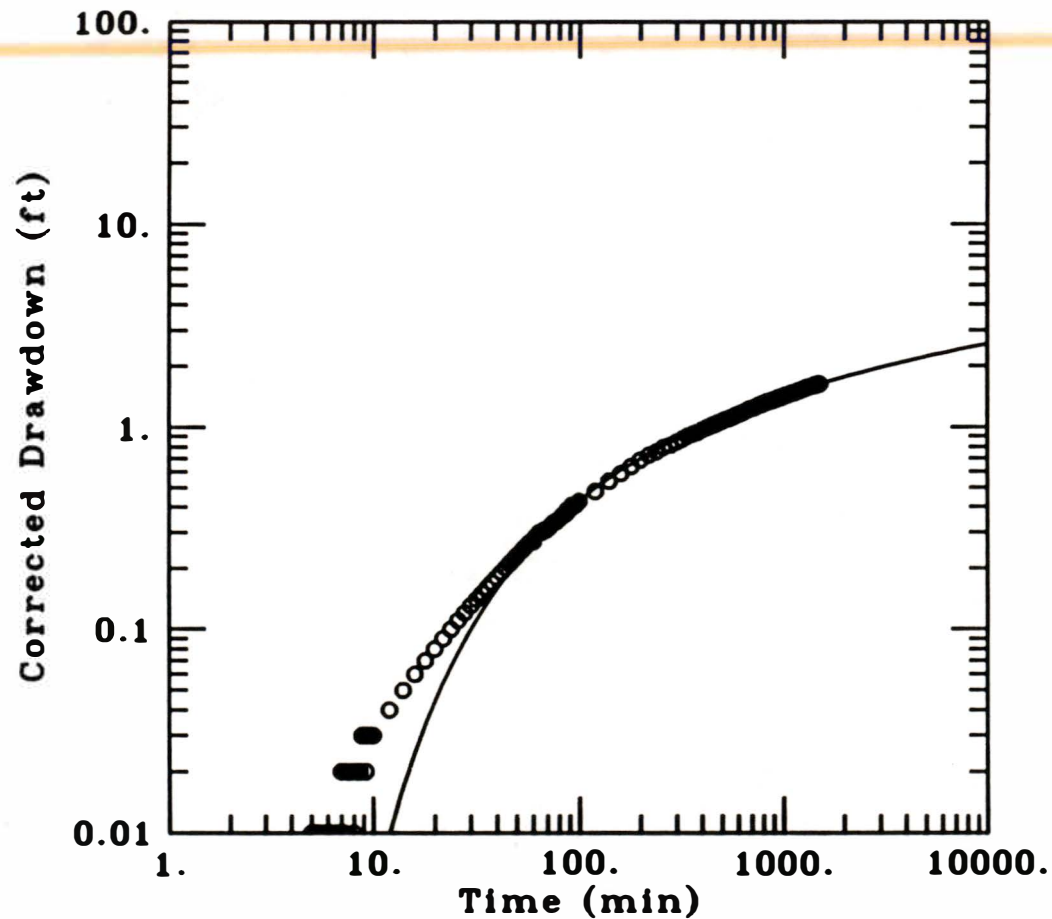
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 44S-P4A



DATA SET:

A44SP4A.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K1

OBS. WELL:

MW-44S

ESTIMATED PARAMETERS:

$T = 11.8 \text{ ft}^2/\text{min}$

$S = 0.1383$

TEST DATA:

$Q = 70.9 \text{ ft}^3/\text{min}$

$r = 102. \text{ ft}$

$b = 40. \text{ ft}$

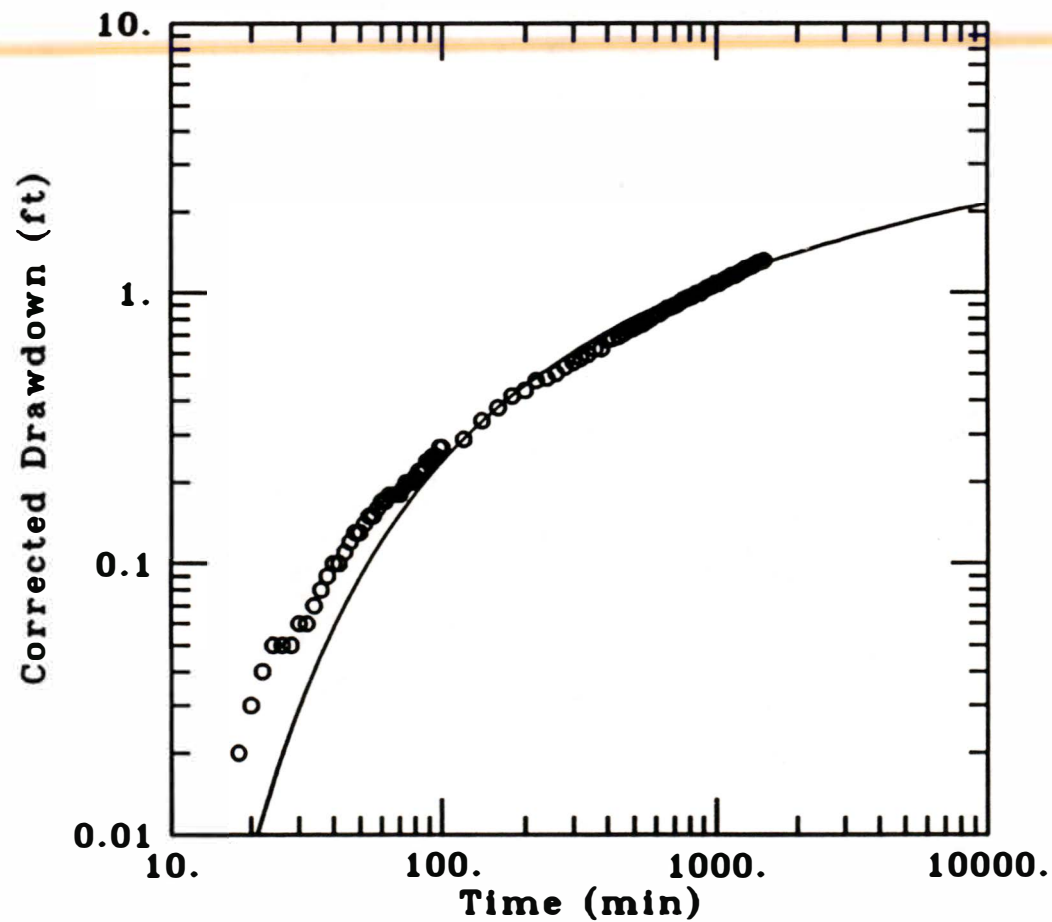
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 45S-P4A



DATA SET:

A45SP4A.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K1

OBS. WELL:

MW-45S

ESTIMATED PARAMETERS:

$T = 12.98 \text{ ft}^2/\text{min}$

$S = 0.02967$

TEST DATA:

$Q = 70.9 \text{ ft}^3/\text{min}$

$r = 297. \text{ ft}$

$b = 20. \text{ ft}$



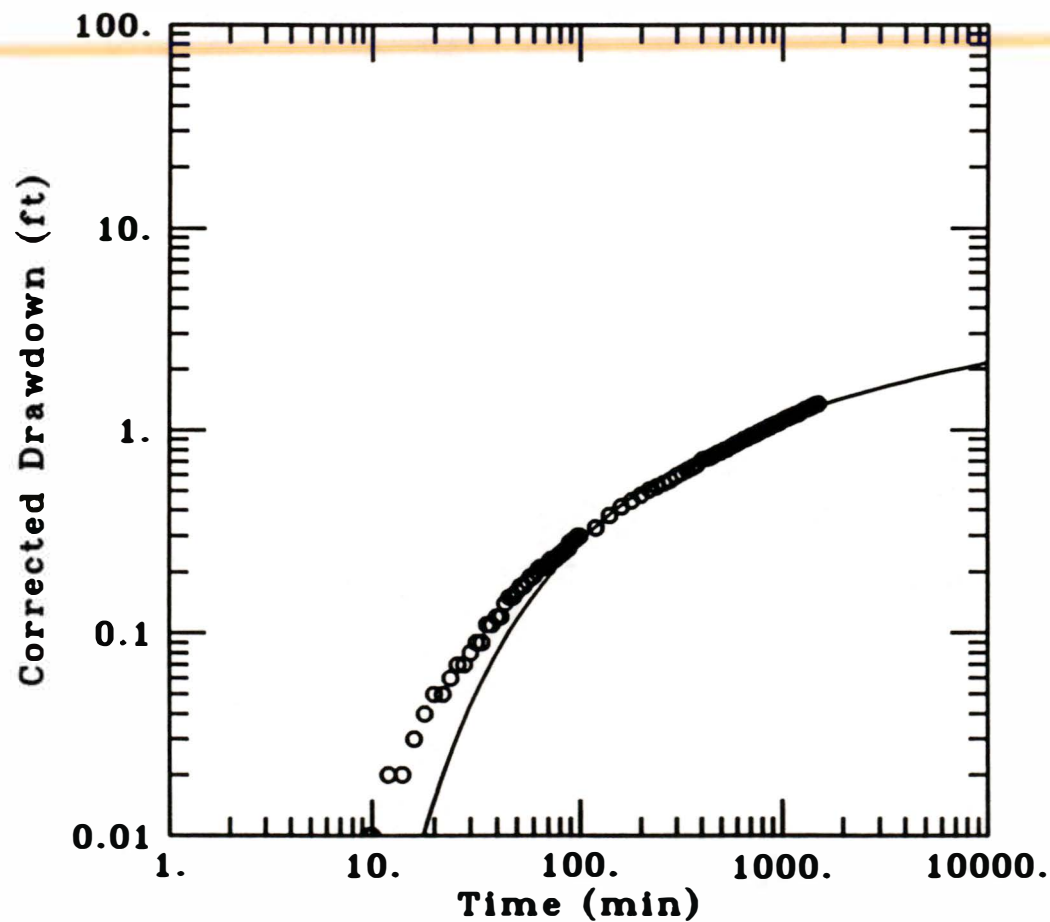
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## 45D-P4A



DATA SET:

A45DP4A.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K1

OBS. WELL:

MW-45D

ESTIMATED PARAMETERS:

$T = 13.54 \text{ ft}^2/\text{min}$

$S = 0.2265$

TEST DATA:

$Q = 70.9 \text{ ft}^3/\text{min}$

$r = 100. \text{ ft}$

$b = 20. \text{ ft}$

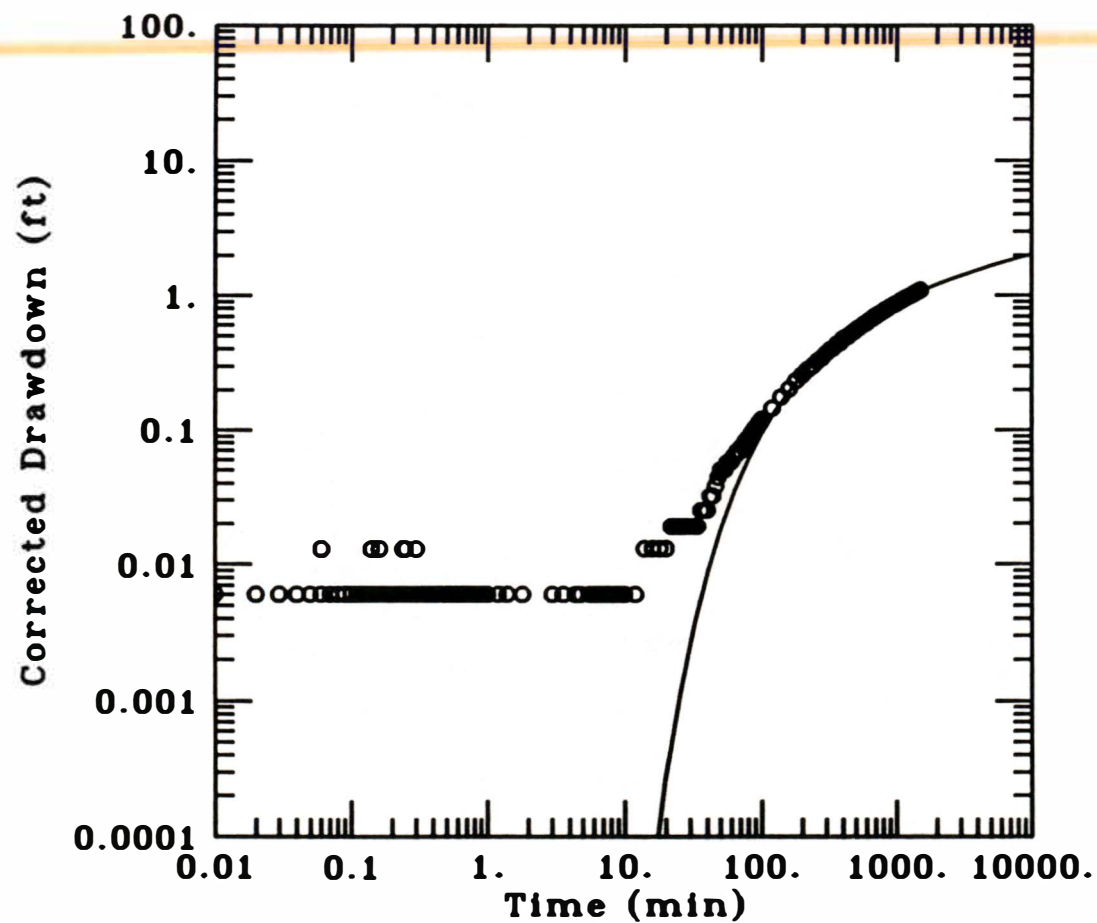
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

**57S-P4A**



DATA SET:

A57SP4A.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K1

OBS. WELL:

MW-57S

ESTIMATED PARAMETERS:

$T = 11.35 \text{ ft}^2/\text{min}$

$S = 0.2336$

TEST DATA:

$Q = 70.9 \text{ ft}^3/\text{min}$

$r = 145. \text{ ft}$

$b = 57.79 \text{ ft}$

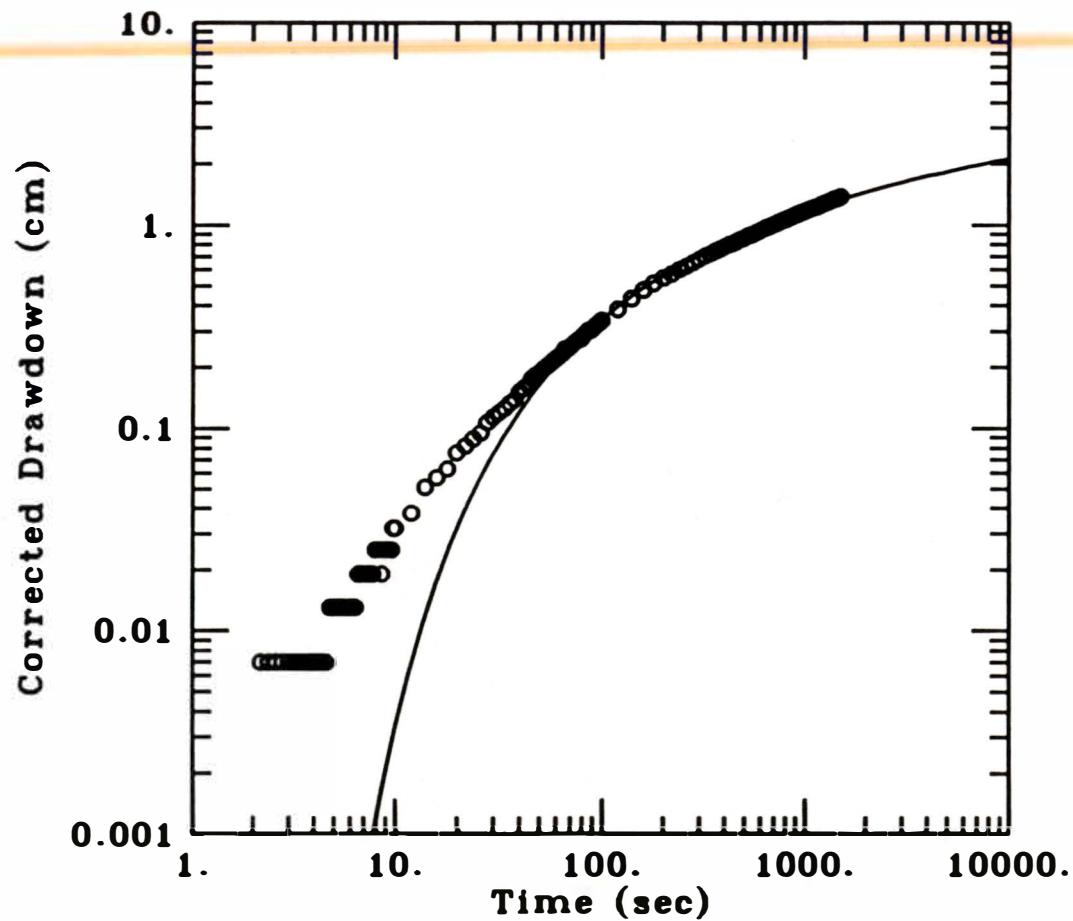
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

**57D-P4A**



DATA SET:

A57DP4A.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K1

OBS. WELL:

MW-57D

ESTIMATED PARAMETERS:

$T = 13.98 \text{ cm}^2/\text{sec}$

$S = 0.08663$

TEST DATA:

$Q = 70.9 \text{ cm}^3/\text{sec}$

$r = 145. \text{ cm}$

$b = 57.79 \text{ cm}$

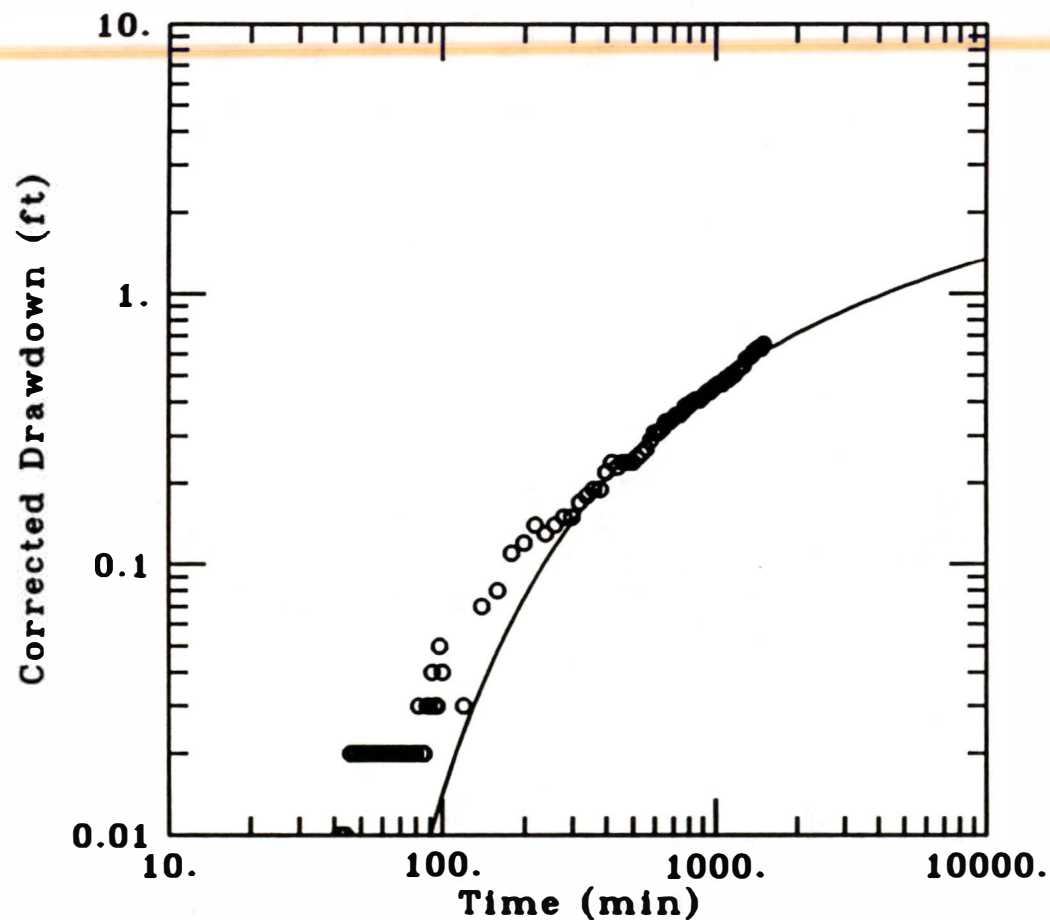
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## D2-P4A



**DATA SET:**

ad2p4a.dat

11/09/92

**AQUIFER TYPE:**

Unconfined

**SOLUTION METHOD:**

Theis

**TEST DATE:**

8/92

**TEST WELL:**

K1

**OBS. WELL:**

D-2

**ESTIMATED PARAMETERS:**

$T = 14.37 \text{ ft}^2/\text{min}$

$S = 0.1103$

**TEST DATA:**

$Q = 70.9 \text{ ft}^3/\text{min}$

$r = 330. \text{ ft}$

$b = 20. \text{ ft}$

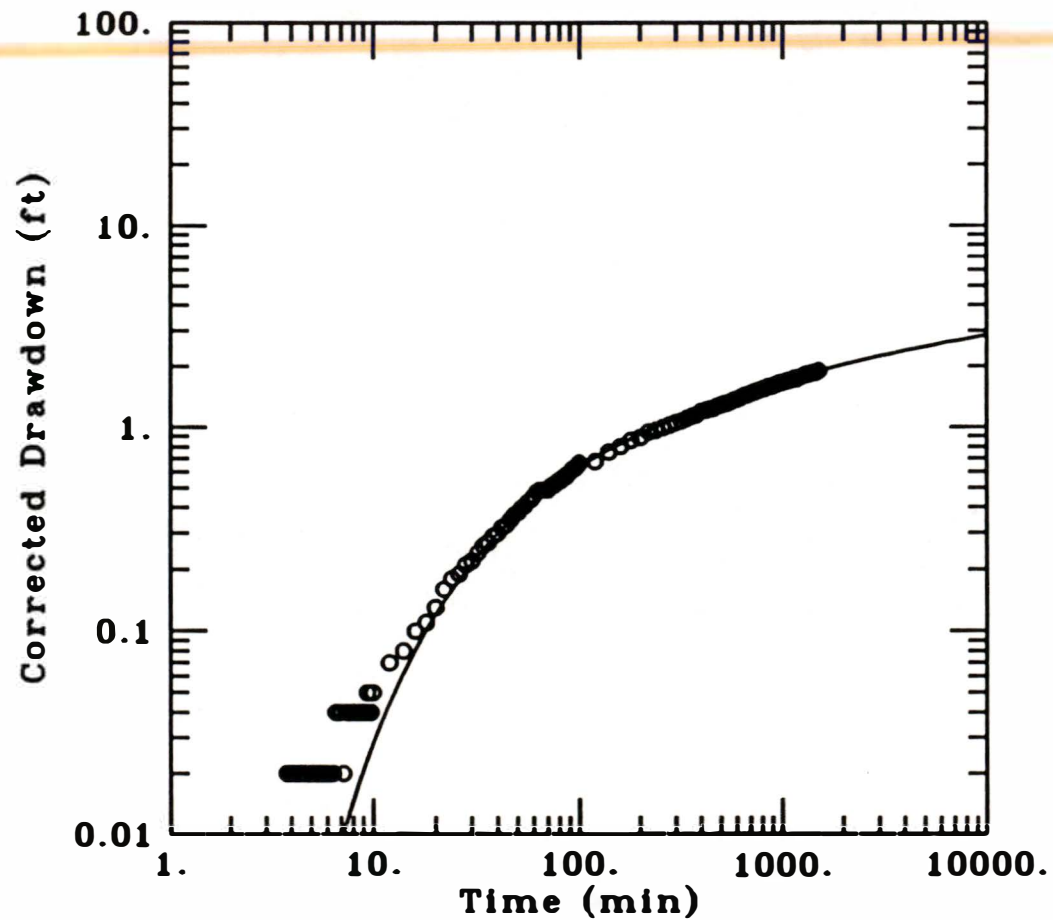
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## D3-P4A



DATA SET:

AD3P4A.DAT

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K1

OBS. WELL:

D-3

ESTIMATED PARAMETERS:

$T = 11.85 \text{ ft}^2/\text{min}$

$S = 0.02135$

TEST DATA:

$Q = 70.9 \text{ ft}^3/\text{min}$

$r = 200. \text{ ft}$

$b = 30. \text{ ft}$



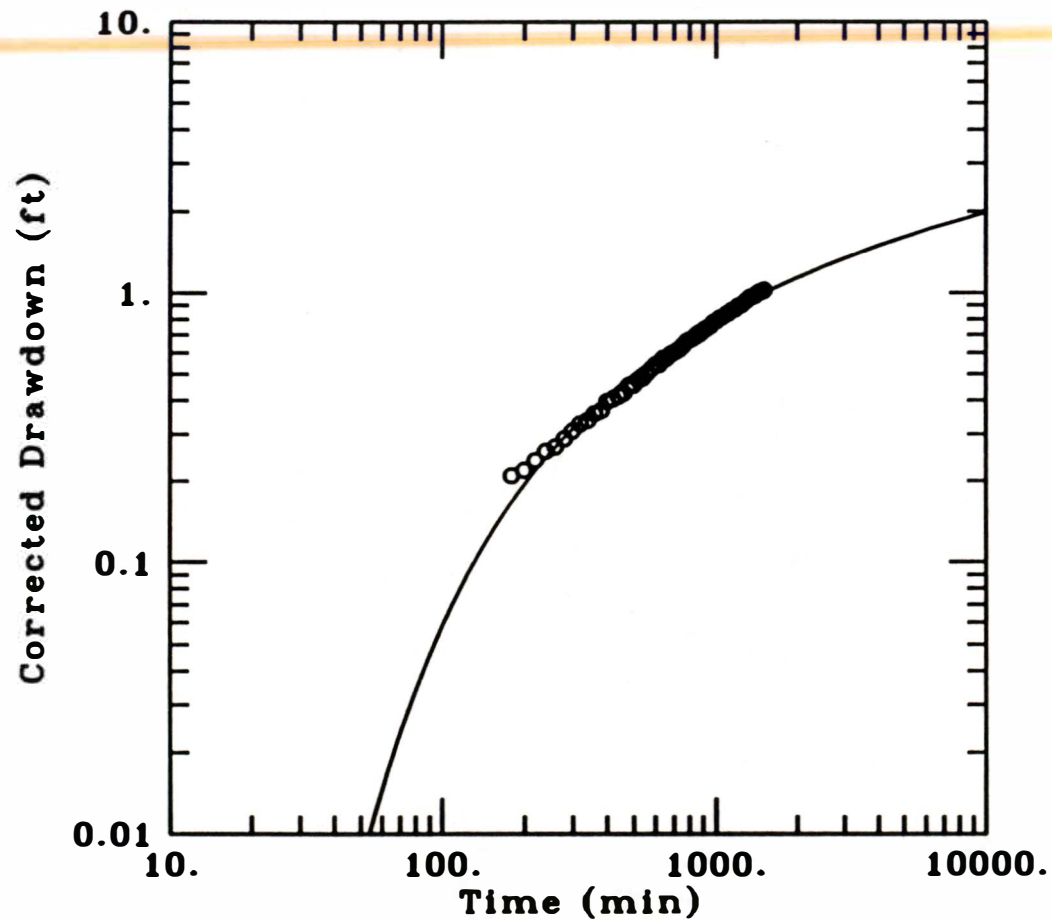
**MALCOLM PIRNIE, INC**

Client: **MILLER CONTAINER**

Project No.: **1028151**

Location: **FULTON, NY**

## D7-P4A



DATA SET:

ad7p4a.dat

11/09/92

AQUIFER TYPE:

Unconfined

SOLUTION METHOD:

Theis

TEST DATE:

8/92

TEST WELL:

K1

OBS. WELL:

D-7

ESTIMATED PARAMETERS:

$T = 11.15 \text{ ft}^2/\text{min}$

$S = 0.059$

TEST DATA:

$Q = 70.9 \text{ ft}^3/\text{min}$

$r = 320. \text{ ft}$

$b = 20. \text{ ft}$

***APPENDIX W***

***RW-1 Pumping Test Report  
(December 1992, revised May 1993)***

**PREPARED FOR**

**MILLER BREWING COMPANY  
CONTAINER DIVISION  
FULTON, NEW YORK**

---

**RW-1  
PUMPING TEST  
REPORT**

**DECEMBER 1992  
(REVISED MAY 1993)**

---

## **RW-1 PUMPING TEST REPORT**

---

**MILLER BREWING COMPANY  
CONTAINER DIVISION  
FULTON, NEW YORK**

**DECEMBER 1992  
REVISED MAY 1993**

**MALCOLM PIRNIE, INC.**

**7481 Henry Clay Boulevard  
Liverpool, New York 13088**

**2 Corporate Park Drive  
White Plains, New York 10602**

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| 3.0 PROCEDURE .....             | 1           |
| 4.0 DISCUSSION OF RESULTS ..... | 2           |
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## **1.0 PURPOSE**

---

The pumping test performed on RW-1 was conducted to assess the cone of influence produced from the pumping of RW-1 at a rate of seven gallons per minute (GPM). The NYSDEC requested at the October 1992 technical meeting that it be shown that drawdown from the RW-1 area extends past MW-8I, as indicated in the Draft RI Report.

Water level readings were taken at MW-8I and MW-8D as well as several other wells in the area to compare with previous pumping test results and to obtain additional information on previously unobserved parts of the aquifer. This information was used to determine if the cone extends into and past the MW-8 cluster at the 7 GPM pumping rate.

## **2.0 INTRODUCTION**

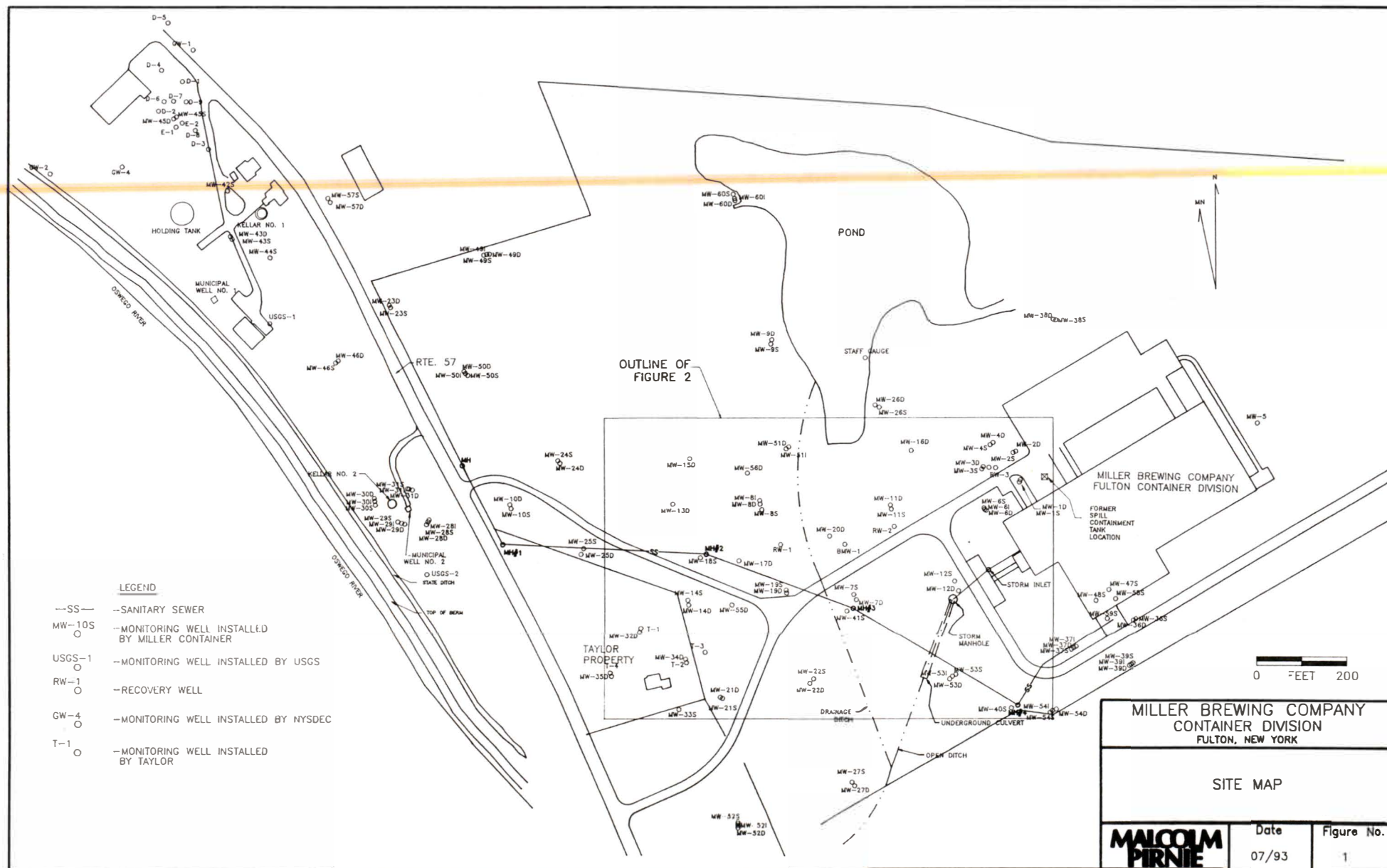
---

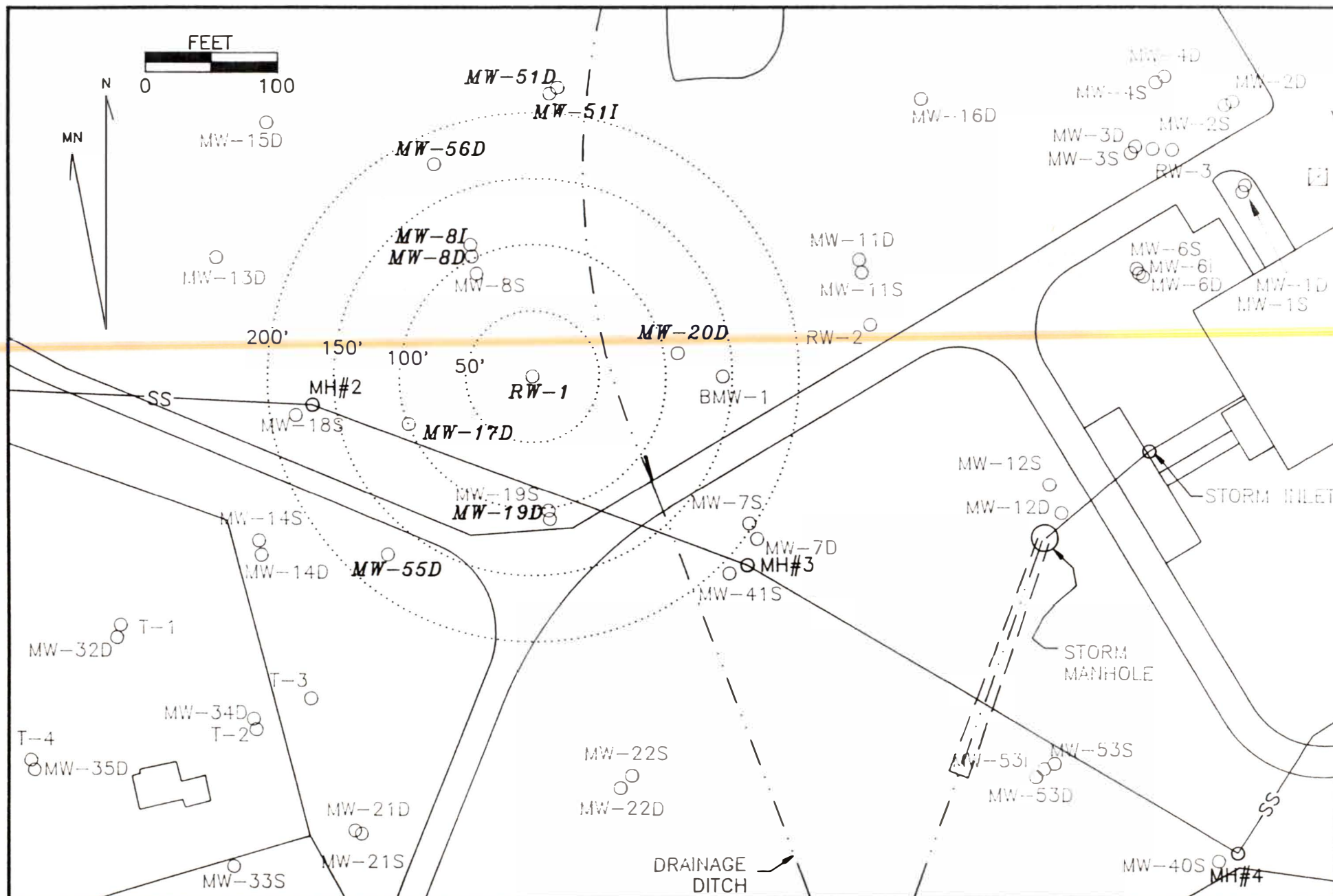
Nine observation wells were chosen around RW-1 (MW-8I, MW-8D, MW-17D, MW-19D, MW-20D, MW-51I, MW-51D, MW-55D, and MW-56D) and transducers were placed in these wells to monitor water levels. The locations of these wells with respect to the site is shown on Figure 1. Figure 2 is an enlargement of the area around RW-1.

## **3.0 PROCEDURE**

---

The pumping test was conducted in three phases. The first phase (Phase 0) was a premonitoring phase to observe trends in the water levels. At this time, RW-1 was pumping at 7 GPM. This was followed by Phase 1 which involved turning off RW-1 to observe recovery of the water levels in the observation wells. RW-1 was left off for almost 75 hours to allow enough time for the water levels to stabilize around RW-1. After water level recovery had stabilized, Phase 2 was begun. This was the drawdown phase during which RW-1 was restarted at its original pumping rate of 7 GPM. Water levels were monitored for 72 hours during Phase 2; however, the maximum amount of drawdown was reached after about 40 hours. Hydrographs of all observation wells during all three phases are included in Appendix A.





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MILLER BREWING COMPANY – CONTAINER DIVISION  
RW-1 PUMPING TEST  
DATA COLLECTION LOCATIONS

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FIGURE 2

#### 4.0 DISCUSSION OF RESULTS

---

No recovery occurred at MW-55D during Phase 1 of the pumping test (recovery phase) and no response was observed during the drawdown phase (Phase 2) at this well. The water level in MW-55D was on an overall slightly downward trend throughout all phases of the pumping test.

Two upgradient wells were selected prior to the test (MW-38S and MW-39S, shown on Figure 1) as background control wells. However, an assessment of the data collected during the test, including a comparison with MW-55D data and rainfall data collected at the City of Fulton Water Works, led to the conclusion that these wells would not serve as appropriate background wells.

Since MW-55D was on an overall downward trend during the test and exhibited no response during the recovery phase, the MW-55 data can be utilized as control data for comparison with water levels from the other observation wells. This comparison leads to the conclusion that water level recovery was observed at all eight other observation wells during Phase 1. The recovery data is listed on Table 1 and contoured on Figure 3.

The greatest response during Phase 1 was observed at MW-19D where over one foot of recovery was measured. However, the recovery observed at the other wells was relatively slight particularly in comparison to the recovery at RW-1 of almost 15 feet. This indicates that the slope of the cone of influence is steep in the vicinity of RW-1 and decreases rapidly with distance from the pumping well. The slope of the cone of influence around RW-1 is elliptical with its long axis extending approximately north-south. The shape of the cone is a function of the preferential spreading below the silty clay layer. Figure 4 shows a cross section of the drawdown cone around RW-1 at the 7 GPM pumping rate on September 26, 1992. The drawdown observed at the 7 GPM rate is about 34 percent of the available drawdown at RW-1. This equates to about 54 percent of the maximum yield and we predict that if the pumping rate at RW-1 is increased to 12 GPM, then the well will be producing about 90 percent of its maximum possible yield.

During Phase 2 of the pumping test, drawdown was observed at all observation wells except MW-55D. However, the drawdown phase was interrupted as recharge boundaries were encountered. Three separate recharge periods during the drawdown phase were observed at MW-51I and MW-51D. Two recharge periods were observed at MW-17D, corresponding to the first and second periods observed at most other wells; and two



**MILLER CONTAINER  
RW-1 PUMPING TEST**

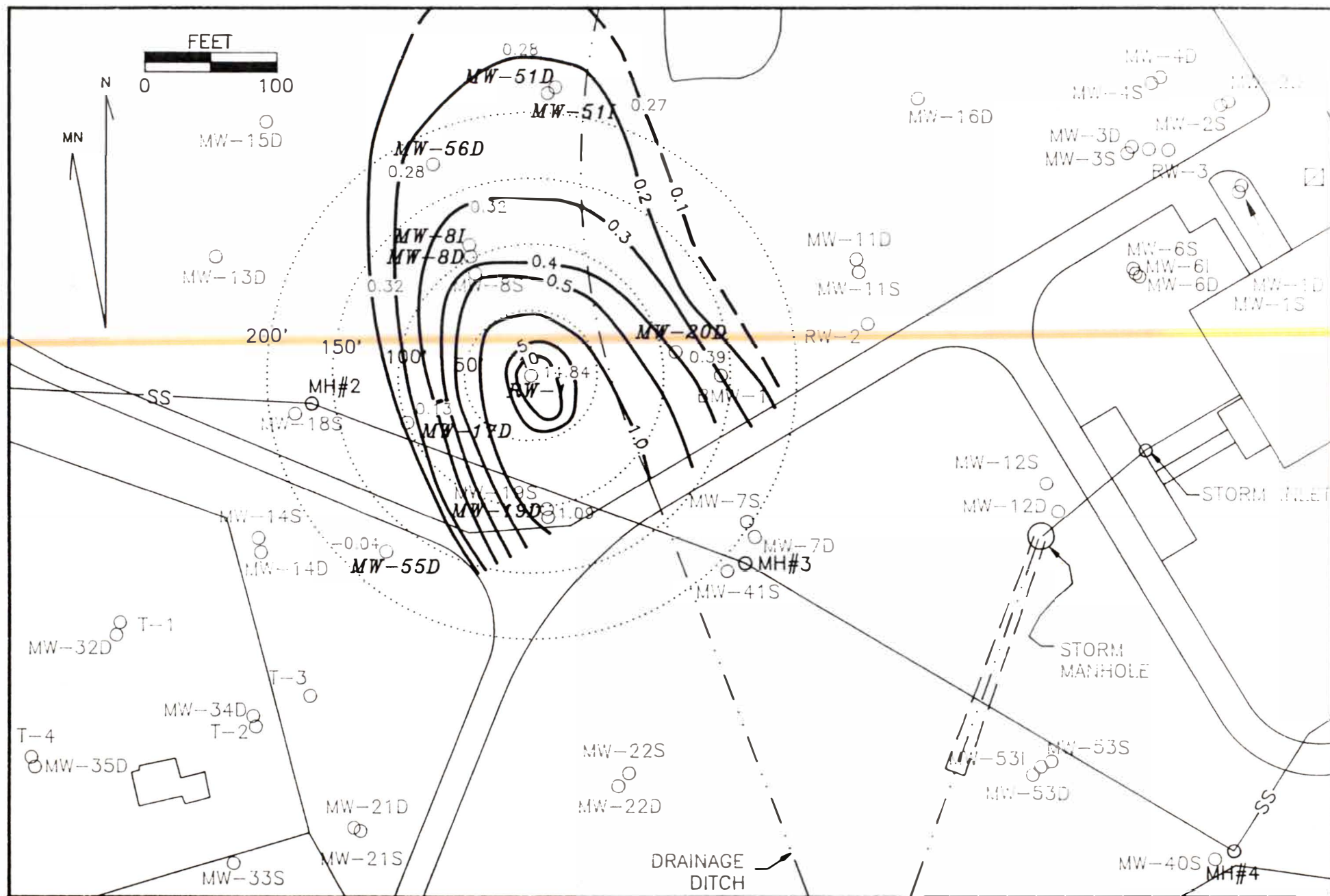
**TABLE 1  
WATER LEVEL CHANGES (Feet Below Measuring Point)**

|                                | MW-8I | MW-8D | MW-17D | MW-19D | MW-20D | MW-51I | MW-51D | MW-55D | MW-56D | RW-1   |
|--------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>PHASE 0</b>                 |       |       |        |        |        |        |        |        |        |        |
| <b>WL at start</b>             | 11.61 | 12.69 | 19.61  | 16.78  | 14.55  | 10.61  | 10.20  | 21.83  | 11.34  | 26.70  |
| <b>WL at end</b>               | 11.72 | 12.80 | 19.71  | 16.84  | 14.67  | 10.74  | 10.33  | 21.89  | 11.53  | 27.18  |
| <b>Net Water Level Change*</b> | -0.11 | -0.11 | -0.10  | -0.06  | -0.12  | -0.13  | -0.13  | -0.06  | -0.19  | -0.49  |
| <b>PHASE 1</b>                 |       |       |        |        |        |        |        |        |        |        |
| <b>WL at start</b>             | 11.73 | 12.80 | 19.71  | 16.84  | 14.68  | 10.74  | 10.33  | 21.88  | 11.53  | 26.40  |
| <b>WL at end</b>               | 11.40 | 12.48 | 19.58  | 15.75  | 14.29  | 10.47  | 10.05  | 21.92  | 11.25  | 11.56  |
| <b>Net Water Level Change*</b> | 0.32  | 0.32  | 0.13   | 1.09   | 0.39   | 0.27   | 0.28   | -0.04  | 0.28   | 14.84  |
| <b>PHASE 2</b>                 |       |       |        |        |        |        |        |        |        |        |
| <b>WL at start</b>             | 11.40 | 12.47 | 19.58  | 15.75  | 14.28  | 10.46  | 10.05  | 21.92  | 11.25  | 11.56  |
| <b>WL at end</b>               | 11.47 | 12.67 | 19.74  | 16.66  | 14.39  | 10.46  | 10.05  | 21.93  | 11.39  | 26.49  |
| <b>Net Water Level Change*</b> | -0.07 | -0.20 | -0.16  | -0.91  | -0.11  | -0.00  | 0.00   | -0.01  | -0.14  | -14.92 |
| <b>PHASE 2</b>                 |       |       |        |        |        |        |        |        |        |        |
| <b>WL at start</b>             | 11.40 | 12.47 | 19.58  | 15.75  | 14.28  | 10.46  | 10.05  | 21.92  | 11.25  | 11.56  |
| <b>WL at MAX</b>               | 11.63 | 12.79 | 19.77  | 16.79  | 14.59  | 10.64  | 10.22  | 21.95  | 11.49  | 27.36  |
| <b>Net Water Level Change*</b> | -0.23 | -0.32 | -0.20  | -1.04  | -0.31  | -0.18  | -0.17  | -0.03  | -0.24  | -15.79 |

F:\PROJECTS\2024\RW1PUMPING\TABLE1\KR.WK1

**NOTES:**

- WL Water Level, measured as feet below measuring point.
- Phase 0 Premonitoring period; equilibrium or static conditions with RW-1 at 7 gpm.
- Phase 1 Recovery phase; RW-1 at 0 gpm.
- Phase 2 Drawdown phase with RW-1 at 7 gpm.
  - \* Positive net water level changes indicate a rise (recovery) in the potentiometric surface; negative net changes indicate a drop (drawdown) in the potentiometric surface.
- MAX Represents the WL at the point of maximum drawdown during Phase 2.



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**MILLER BREWING COMPANY - CONTAINER DIVISION**  
**FEET OF RECOVERY (WATER LEVEL RISE)**  
**DURING PHASE 1**

**MALCOLM PIRNIC, INC.**

**FIGURE 3**

# MILLER CONTAINER RW-1 PUMPING TEST

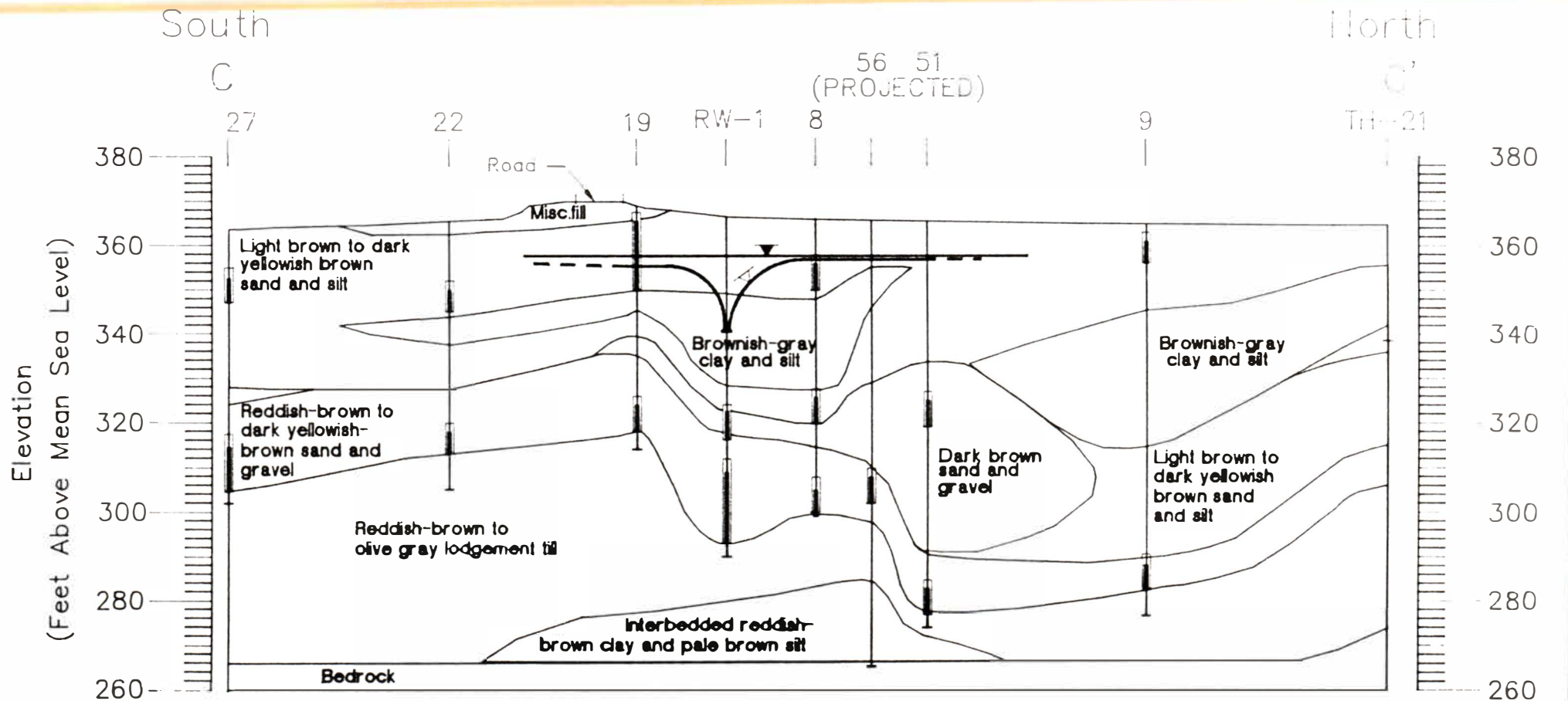
## FIGURE 4

### RW-1 CONE OF INFLUENCE

HORIZONTAL SCALE



VERTICAL EXAGGERATION = 5x



NOTE: CROSS SECTION FROM 1992 DRAFT RI REPORT    ▽ STATIC WATER LEVEL ON 9/24    △ 7 GPM WATER LEVEL ON 9/26

recharge periods were observed at MW-19D, corresponding to the second and third periods at most other wells (although the third period was relatively minor at MW-19D compared to the other observation wells). Only the third recharge period was clearly visible at MW-56D. The recharge periods during the drawdown phase can be seen on the hydrographs in Appendix A.

The first recharge period, during which the smallest amount of recharge of the three recharge periods occurred, can be seen on the hydrographs of all wells except MW-19D and MW-56D. This period began about one hour after the start of Phase 2. The second recharge period occurred about one day into Phase 2, ranging from 18 hours at MW-17D to 24 hours, and was observed at all observation wells where drawdown occurred except MW-56D. On the average, this recharge period occurred at about 23 hours after the start of Phase 2. The occurrence of this period at only 18 hours into the test at MW-17D is noteworthy and will be discussed in more detail later in this section. The third recharge period, during which the greatest rebound occurred, started about two days into the drawdown phase and was observed at all wells except MW-17D (and MW-55D).

The first recharge period may be the result of the intersection of sand and gravel units in the immediate vicinity of the pumping well as the drawdown spreads from the well. As the availability of ground water in these units is depleted, more rapid drawdown resumes. The second recharge period is attributed to the increased availability of ground water as the drawdown cone spreads into the area where the silty clay layer terminates. The earlier beginning of this period at MW-17D indicates that the silty clay layer is laterally less extensive in this direction from RW-1. The third period of recharge is attributed to the availability of ground water from the pond, and perhaps the drainage ditch that exits from the pond's southwest corner. The lack of this recharge period at MW-17D, and the relatively minor recharge observed at MW-19D and MW-56D during this period, are a function of the locations of these wells relative to the pond.

Phase 2 of the pumping test was concluded during the third recovery period. As the recharge available from the pond area equilibrated with the discharge at RW-1, the third recovery period would probably have peaked and drawdown would resume. This statement can be made since the data available from the recovery phase (Phase 1) indicate a greater amount of drawdown than that observed at the end of Phase 2.

The data collected during the pumping test were used to estimate the hydraulic conductivity in the vicinity of RW-1 and the location of the capture curve around RW-1 at

the 7 GPM discharge rate. The equations presented by D.K. Todd (1980) were used for these purposes.

The hydraulic conductivity estimated according to the equation for unconfined aquifers averaged about  $2 \times 10^{-5}$  ft/sec in the area between MW-20D and RW-1. The hydraulic conductivity in the semiconfined area near RW-1 averaged about  $3 \times 10^{-5}$  ft/sec. These values correlate fairly well with the data obtained by slug testing performed at the individual wells.

Using the average hydraulic conductivities, an average aquifer thickness, the 7 GPM discharge rate and the natural piezometric slope, the boundary of the region where inflow to RW-1 occurs was estimated. Based on these estimates, the ground water divide, separating the area where ground water in the intermediate to deep ground water zones would be and would not be drawn to RW-1, has been drawn on Figure 5.

The ground water divide is located beyond MW-8I with respect to RW-1. Therefore, according to this method, the contamination at MW-8I is being captured by RW-1. However, the contamination in the vicinity of MW-56D and some contamination that is undoubtedly present between MW-56D and MW-8I is apparently not being captured by RW-1. This portion of the contaminant plume is probably responsible for the contamination observed at MW-13D.

The following paragraphs present some other observations regarding the hydrographs in Appendix A.

There were two monitoring well clusters observed during the test that contain a well with a screen in an intermediate zone between the water table and the sand and gravel zone immediately overlying lodgement till (MW-8 and MW-51). The surface location of the MW-8S,I,D cluster is located above the silty clay layer and cluster MW-51I,D is located northeast of the extent of the clay layer. Within the clusters, the water level in each deep well showed almost the same drawdown and recovery as the intermediate well. This indicates similar hydraulic connection between the two wells in the clusters and RW-1.

Relatively rapid water level fluctuations were observed at most wells on a periodic basis. The fluctuations appear to be due to traffic to and from the Container Plant since they occur during peak traffic periods.

Values of transmissivity (T) and storativity (S) which is usually taken to be equal to the specific yield in the case of an unconfined aquifer were calculated for the observation wells under semi-confining conditions using two Hantush leaky aquifer methods. The first





Hantush method (Hantush 1) assumes that no storage is occurring in the overlying aquitard while the second Hantush method (Hantush 2) assumes that significant storage does occur in the overlying aquitard. Wells under unconfined conditions were analyzed using the Theis and/or Cooper-Jacob methods.

In general, the type curves for these methods were best-fit to the bulk data. The Cooper-Jacob solution was also applied to the early drawdown data collected at MW-20D prior to the 100-minute point. This curve is shown in Appendix B along with other graphs of the drawdown and T and S estimations.

The values of T and S estimated during the September 1992 pumping test are listed in Table 2. Values of T ranged from 3.9 ft<sup>2</sup>/min. at MW-51I to 0.249 ft<sup>2</sup>/min. at MW-19D. Transmissivities for wells near RW-1 (MW-8I, MW-8D, MW-17D, MW-19D) are relatively low. The low T in the RW-1 area has the effect of producing a steep drawdown cone. The transmissivity estimated by the Cooper-Jacob Method when applied to the early drawdown data (0-100 minutes) is much lower than when the curve is fit to the bulk data.

Average values of S for an unconfined aquifer range from 10<sup>-2</sup> to 10<sup>-1</sup> while a confined aquifer typically has values of S ranging from 10<sup>-5</sup> to 10<sup>-3</sup> (Driscoll 1986, Freeze and Cherry, 1979). Values of S estimated for wells under unconfined conditions at the site (MW-20D, MW-51I, MW-51D, and MW-56D) are much lower than would be expected. However, Nwankwor, et al (1992) point out that the estimation of specific yield in an unconfined aquifer by normal aquifer test methods may result in unrealistically low values; particularly during relatively short pumping tests when there are significant vertical hydraulic gradients. Values of S estimated for wells screened under the semi-confining clay layer (MW-8I, MW-8D, MW-17D, and MW-19D) are in the normal range for wells under confined aquifer conditions.

In general, the values of S for semi-confined wells are about the same, regardless of which Hantush method was used. This may suggest that there is no significant storage of water in the overlying aquitard. Values of S ranged from 0.009 at MW-17D to 0.0002 at MW-20D. Leakage factors (r/B and B) were similar between wells in semi-confined areas indicating a fairly uniform, unfractured silty clay layer. Some of the wells near the edge of the silty clay layer (MW-51I, MW-51D, MW-17D, MW-56D) were analyzed using both confined (Hantush 1 and 2) and unconfined (Theis) type methods. The results of T and S show little difference between methods. However, the leakage factors for MW-51I, MW-51D and MW-56D are very low indicating that they are probably under unconfined

**MILLER CONTAINER  
RW-1 PUMPING TEST**

**TABLE 2  
VALUES OF TRANSMISSIVITY AND STORATIVITY**

| WELL ID | TRANSMISSIVITY<br>(FT <sup>2</sup> /MIN) | STORATIVITY | r/B    | B      | METHOD<br>NAME          | AQUIFER<br>TYPE |
|---------|------------------------------------------|-------------|--------|--------|-------------------------|-----------------|
| MW-8I   | 1.892                                    | 0.00094     | 0.1215 | ---    | HANTUSH 1               | C               |
|         | 1.756                                    | 0.00065     | ---    | 0.0698 | HANTUSH 2               | C               |
| MW-8D   | 0.926                                    | 0.00069     | 0.2215 | ---    | HANTUSH 1               | C               |
|         | 1.116                                    | 0.00041     | ---    | 0.0722 | HANTUSH 2               | C               |
| MW-17D  | 1.128                                    | 0.00241     | 0.3135 | ---    | HANTUSH 1               | C               |
|         | 2.000                                    | 0.00110     | ---    | 0.0494 | HANTUSH 2               | C               |
|         | 2.915                                    | 0.00890     | ---    | ---    | THEIS                   | U               |
| MW-19D  | 0.249                                    | 0.00079     | 0.2151 | ---    | HANTUSH 1               | C               |
|         | 0.290                                    | 0.00049     | ---    | 0.0628 | HANTUSH 2               | C               |
| MW-20D  | 2.070                                    | 0.00032     | ---    | ---    | THEIS                   | U               |
|         | 2.174                                    | 0.00020     | ---    | ---    | COOPER-JACOB            | U               |
|         | 0.893                                    | 0.00048     | ---    | ---    | COOPER-JACOB (0-100min) | U               |
| MW-51I  | 3.944                                    | 0.00043     | 1 E-5  | ---    | HANTUSH 1               | C               |
|         | 3.853                                    | 0.00047     | ---    | 1 E-5  | HANTUSH 2               | C               |
|         | 3.763                                    | 0.00051     | ---    | ---    | THEIS                   | U               |
| MW-51D  | 3.802                                    | 0.00050     | 1 E-5  | ---    | HANTUSH 1               | C               |
|         | 3.565                                    | 0.00065     | ---    | 1 E-5  | HANTUSH 2               | C               |
|         | 3.488                                    | 0.00068     | ---    | ---    | THEIS                   | U               |
| MW-56D  | 2.291                                    | 0.00170     | 1 E-5  | ---    | HANTUSH 1               | C               |
|         | 2.031                                    | 0.00260     | ---    | 1 E-5  | HANTUSH 2               | C               |
|         | 1.856                                    | 0.00320     | ---    | ---    | THEIS                   | U               |

F:\PROJ\102&248\RW1\TST\TAB2\KR.WKI

**NOTES:**

C = Confined Aquifer

U = Unconfined Aquifer

Storativity, r/B, and B are dimensionless

Hantush 1 - No storage in aquitards

Hantush 2 - Storage in aquitards

conditions, while the leakage factor for MW-17D was in the normal range for other wells under confined or semi-confined conditions in the RW-1 area. The values of T and S estimated for the September 1992 pumping test agree with the values estimated during the June 1990 pumping test at RW-1 for most wells; however, values of S for unconfined wells were higher during the September 1992 test. This may be due to conducting the test under different seasonal conditions. The results of the September 1992 test were also compared to the T and S values estimated from the August 1992 K-1/K-2/M-2 pumping test at the City of Fulton Municipal Water Works. Values of T and S for all wells except MW-55D were lower in the RW-1 area than in the K-1/K-2/M-2 area. This shows that the lithologic units in the RW-1 area have a higher content of fine grained material and are less permeable than the units around the K-1/K-2/M-2 area.

## 5.0 CONCLUSIONS

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Several conclusions have been drawn from the data collected during the RW-1 pumping test.

- MW-8I and MW-8D are both hydraulically connected to RW-1 and both are influenced to a similar degree by the current pumping rate at RW-1. This indicates that contamination that is in the vicinity of MW-8I would be within the capture curve of RW-1.
- The silty-clay layer plays an important part in the lateral formation of the cone of influence. The cone of influence around RW-1 is elliptical with its long axis trending north-south. The cone extends farther to the south than to the north of RW-1, and in cross-section, the slope of the cone increases very rapidly near RW-1. This is indicative of more water availability to the north and northeast, possibly due to the occurrence of the thick sand and gravel unit near MW-51I,D and the pond in this area.
- Up to three periods of recharge were observed at most observation wells in the vicinity of RW-1. These recharge periods are indicative of the interception of recharge boundaries as the cone of influence spreads around RW-1.
- The data collected and results produced during the September 1992 pumping test are consistent with the findings of the June 1990 pumping test.
- There is sufficient water available in the vicinity of RW-1 to increase the pumping rate of RW-1. According to our estimates, if the pumping rate in RW-1 was increased to around 12 GPM, then the well would produce approximately 90 percent of its maximum possible yield with a drawdown of

about 32 feet. This would allow collection of more contaminated ground water as well as increasing the lateral extent of the cone of influence.

These conclusions support the findings in the draft Remedial Investigation (RI) report submitted to Miller Brewing Co. in April 1992. The data and findings produced during this test will be incorporated into the final RI report.

**Selected References:**

Driscoll, Fletcher G. 1986, Groundwater and Wells 2nd Ed., Johnson Filtration Systems, Inc., St. Paul Minn., 1089 pp.

Freeze, Alan R. and Cherry, John A. 1979, Groundwater, Prentice Hall, Inc., Englewood Cliffs, NJ, 604 pp.

Nwankwor, G.I., et al, 1992, "Unsaturated and Saturated Flow in Response to Pumping of an Unconfined Aquifer: Field Evidence of Delayed Drainage," Ground Water, v.30, n.5.

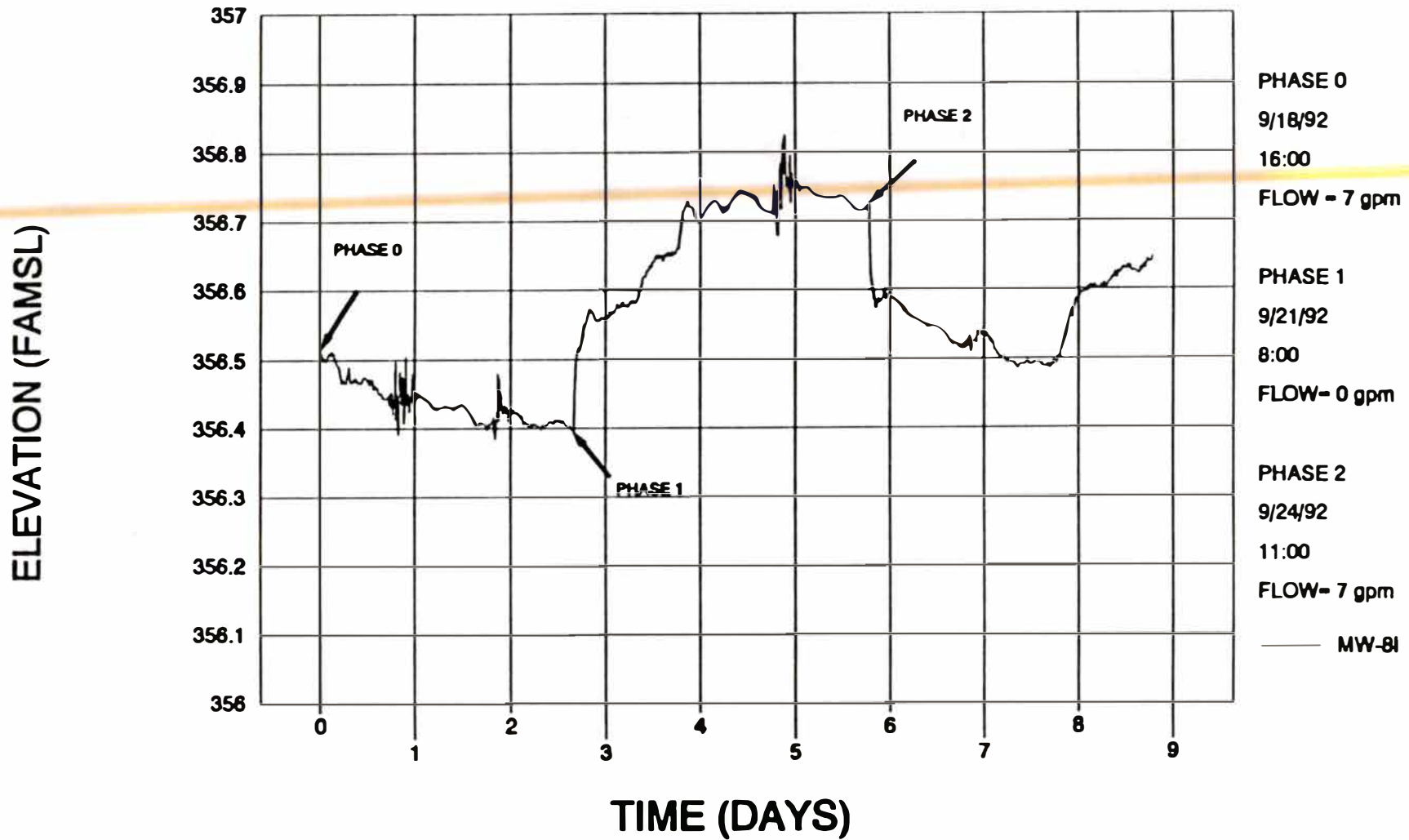
Todd, D.K., 1959, Ground Water Hydrology, 2nd Edition (1980), John Wiley & Sons.



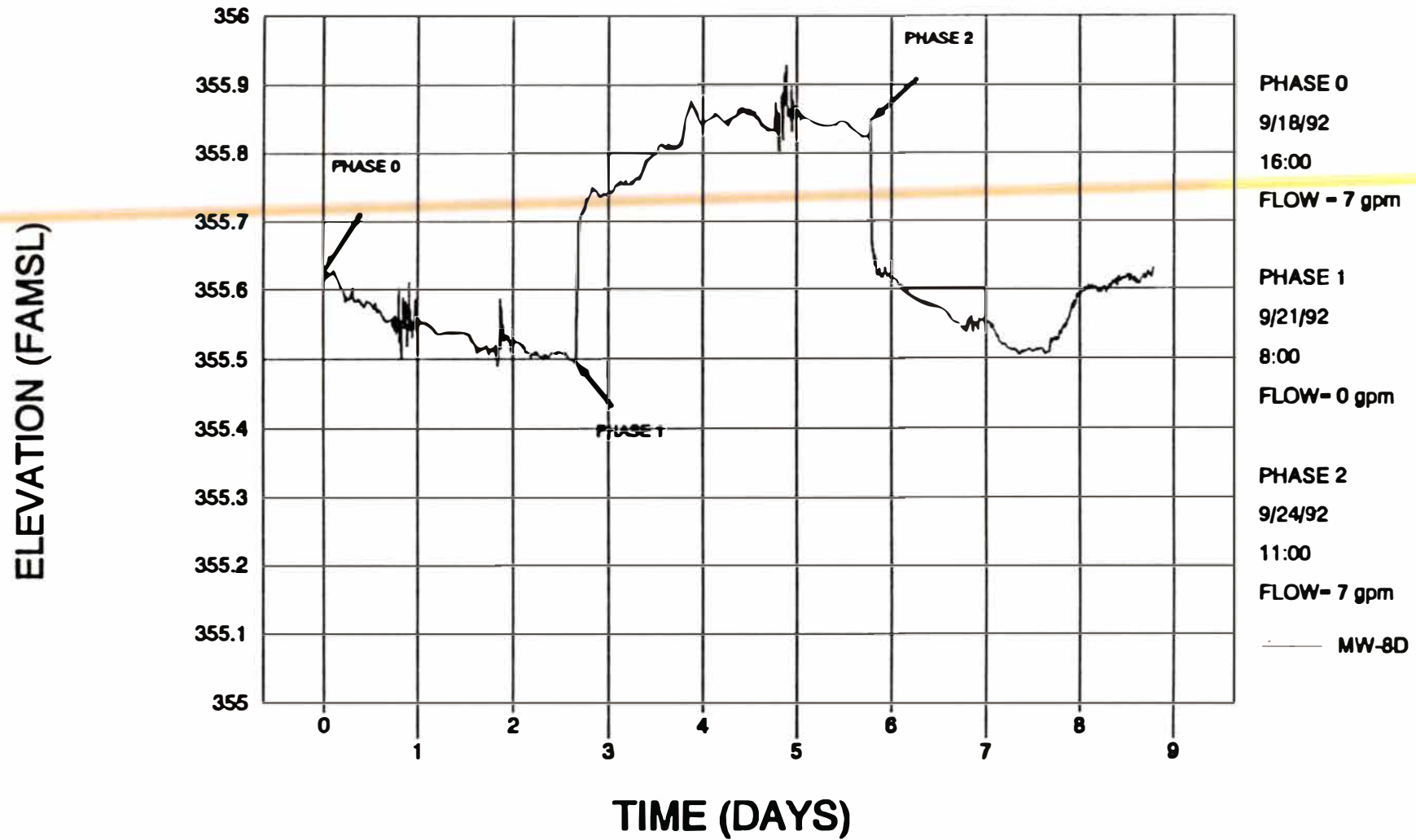
**APPENDIX A**

**HYDROGRAPHS**

# MILLER CONTAINER RW-1 PUMPING TEST MW-8I



# MILLER CONTAINER RW-1 PUMPING TEST MW-8D

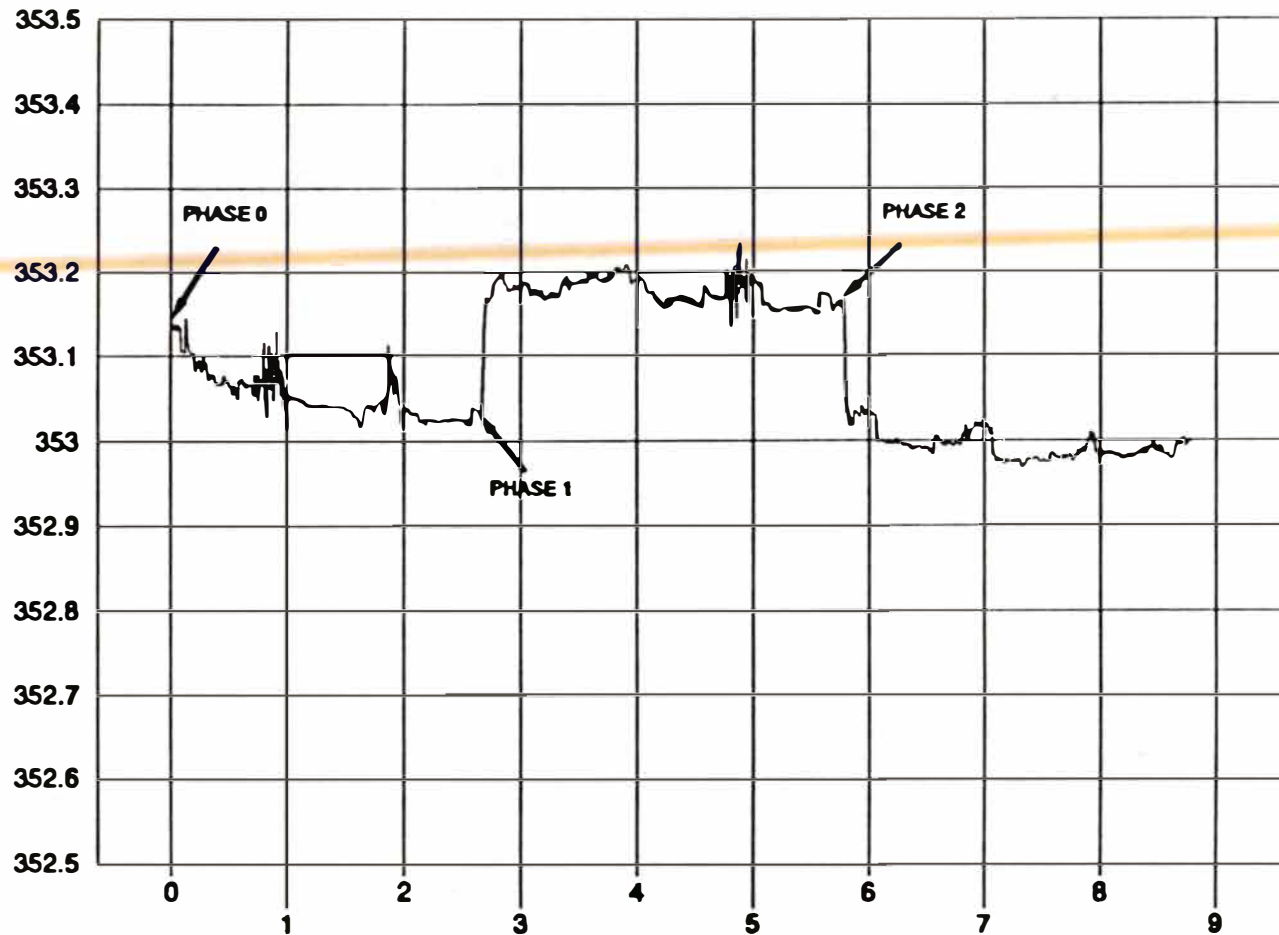


# MILLER CONTAINER

## RW-1 PUMPING TEST

### MW-17D

ELEVATION (FAMSL)



TIME (DAYS)

PHASE 0

9/18/92

16:00

FLOW = 7 gpm

PHASE 1

9/21/92

8:00

FLOW = 0 gpm

PHASE 2

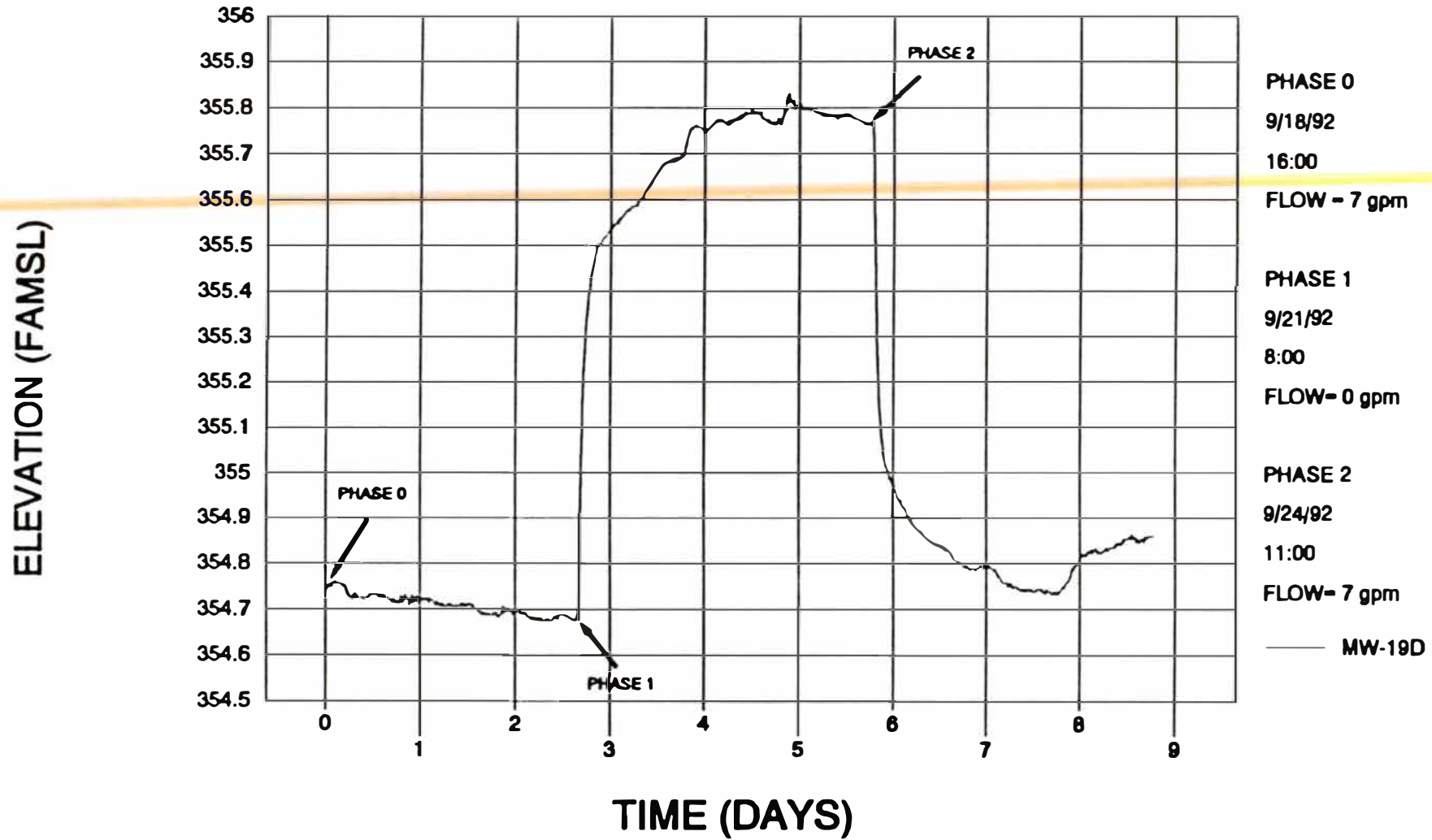
9/24/92

11:00

FLOW = 7 gpm

— MW-17D

# MILLER CONTAINER RW-1 PUMPING TEST MW-19D



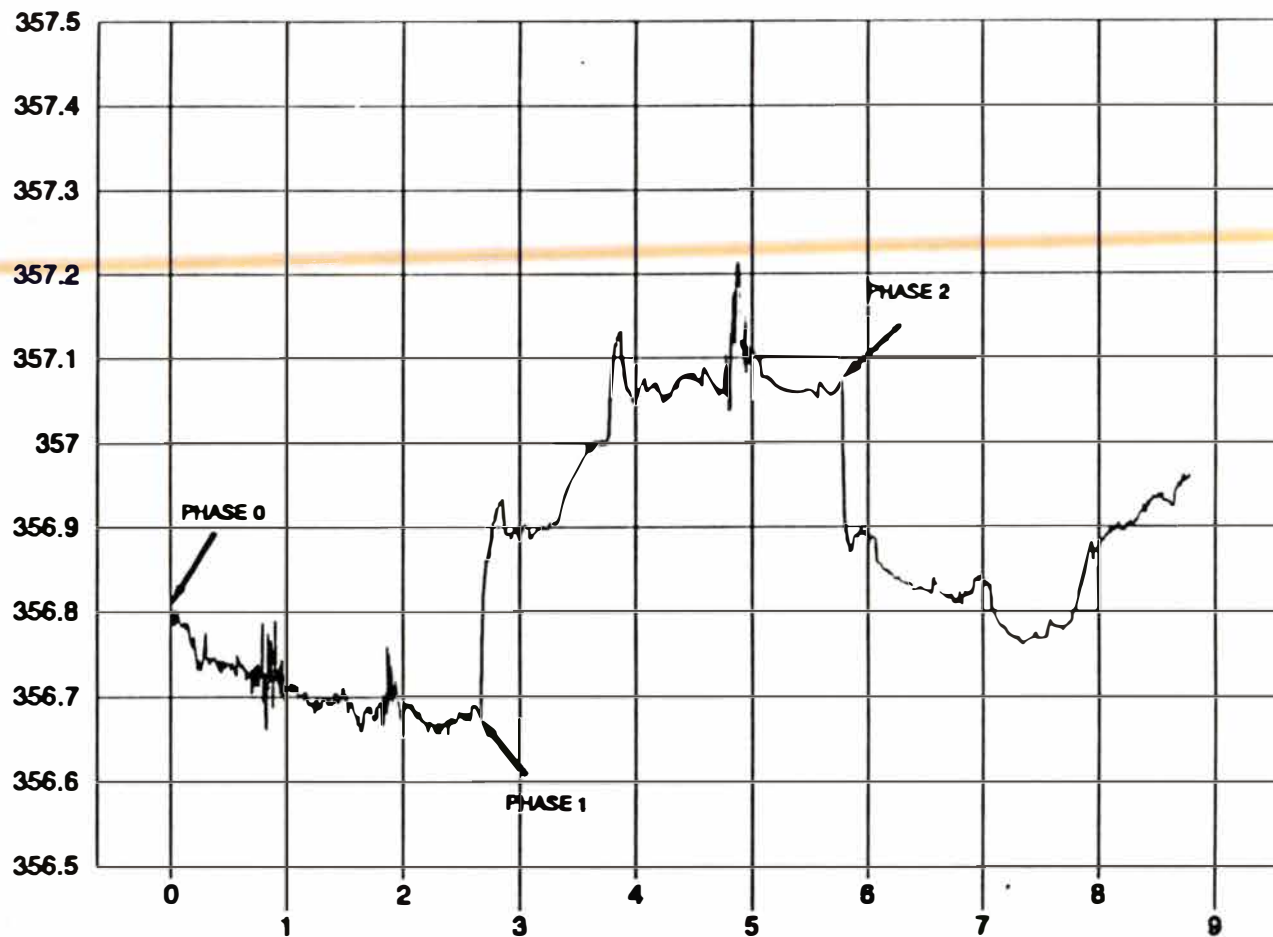


# MILLER CONTAINER

## RW-1 PUMPING TEST

### MW-20D

ELEVATION (FAMSL)



TIME (DAYS)

PHASE 0

9/18/92

16:00

FLOW = 7 gpm

PHASE 1

9/21/92

8:00

FLOW = 0 gpm

PHASE 2

9/24/92

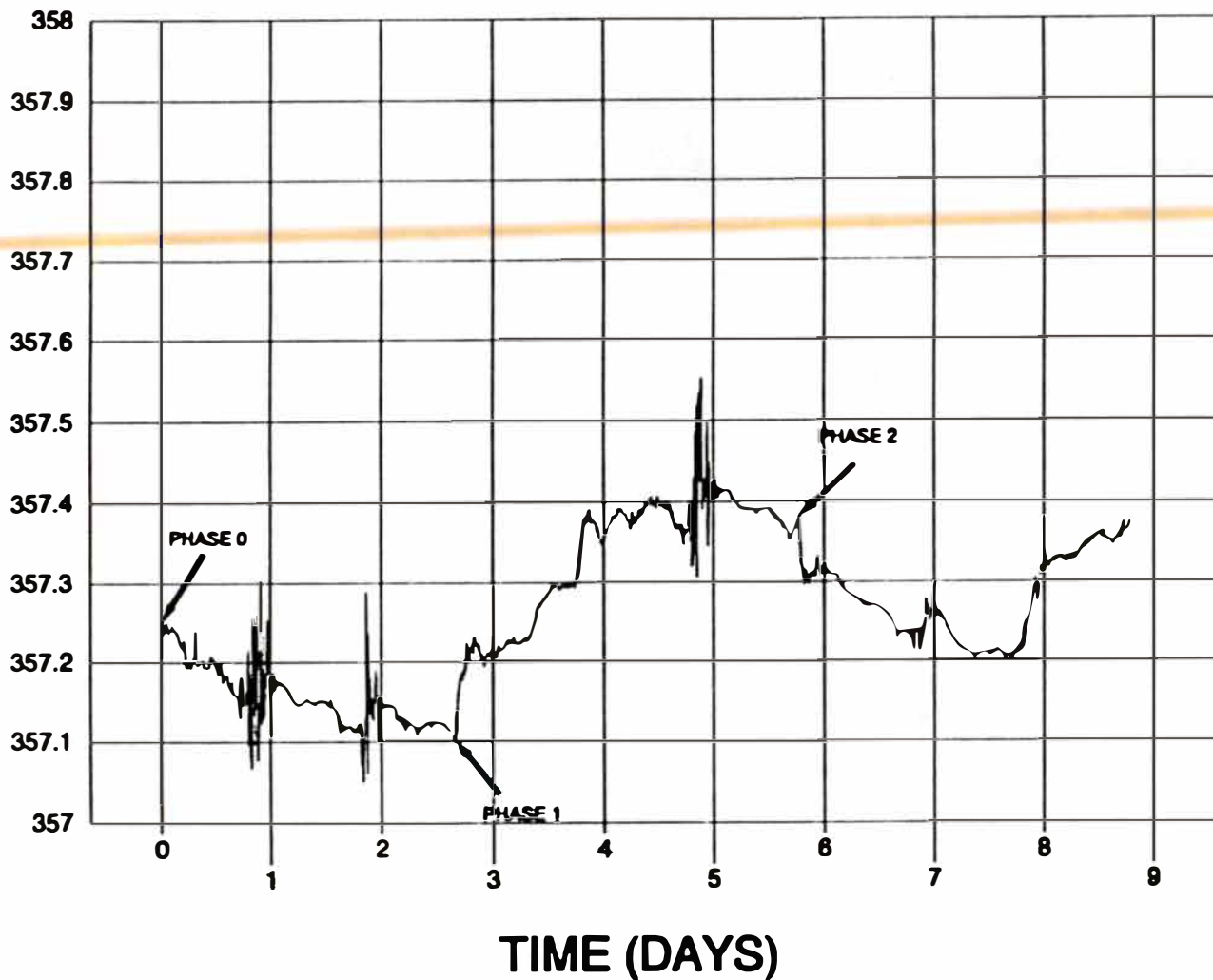
11:00

FLOW = 7 gpm

— MW-20D

# MILLER CONTAINER RW-1 PUMPING TEST MW-51I

ELEVATION (FAMSL)



PHASE 0

9/18/92

16:00

FLOW = 7 gpm

PHASE 1

9/21/92

8:00

FLOW = 0 gpm

PHASE 2

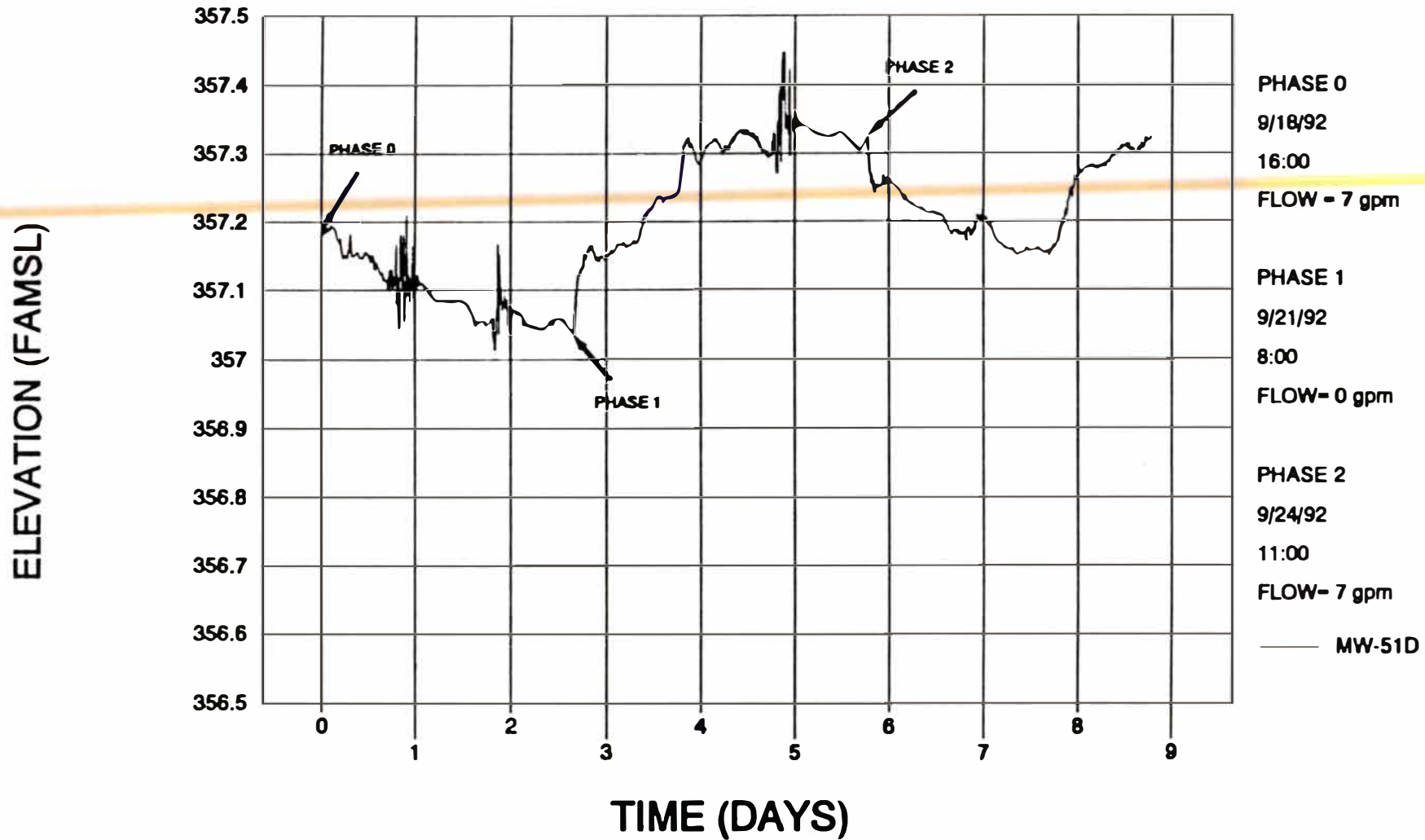
9/24/92

11:00

FLOW = 7 gpm

— MW-51I

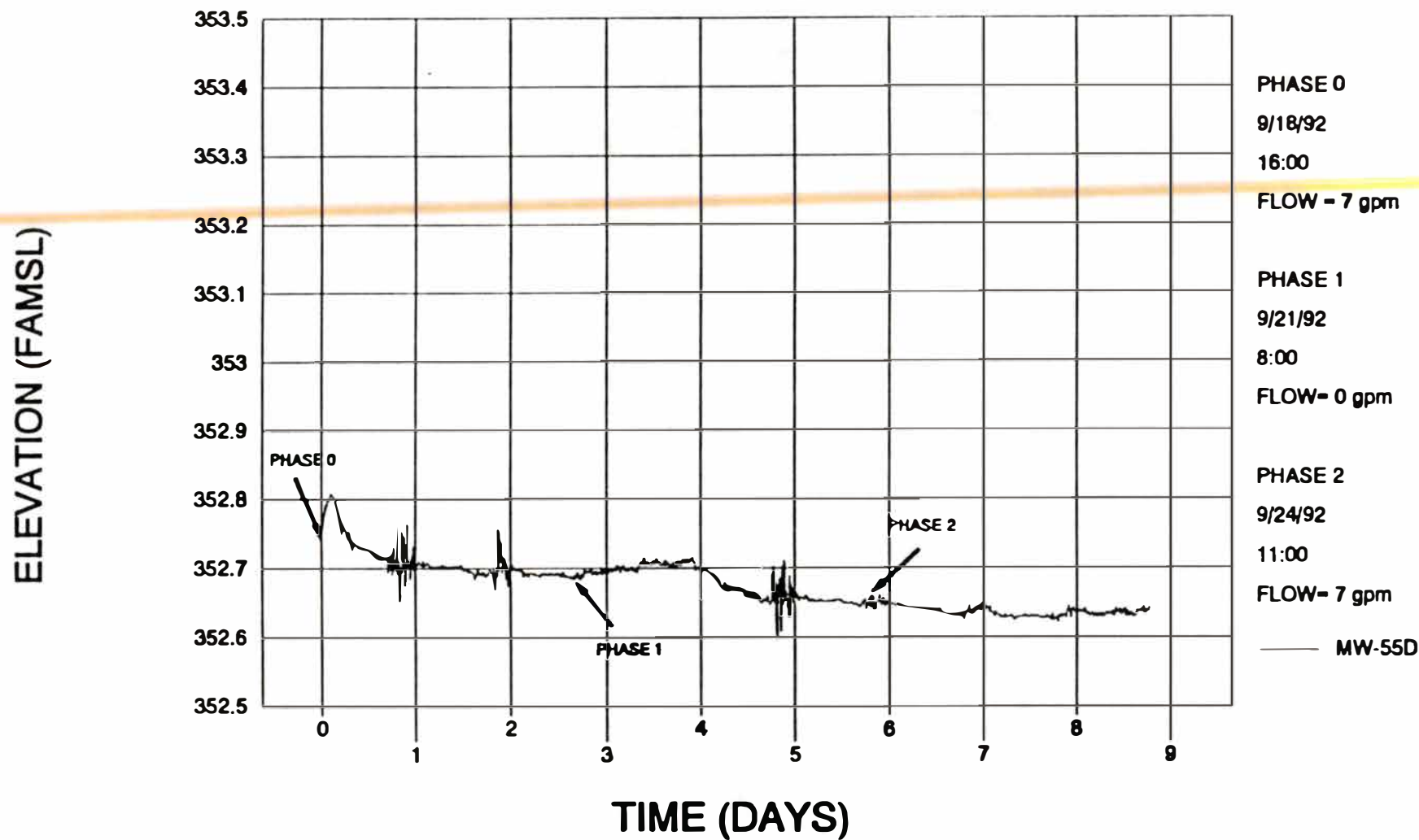
# MILLER CONTAINER RW-1 PUMPING TEST MW-51D



# MILLER CONTAINER

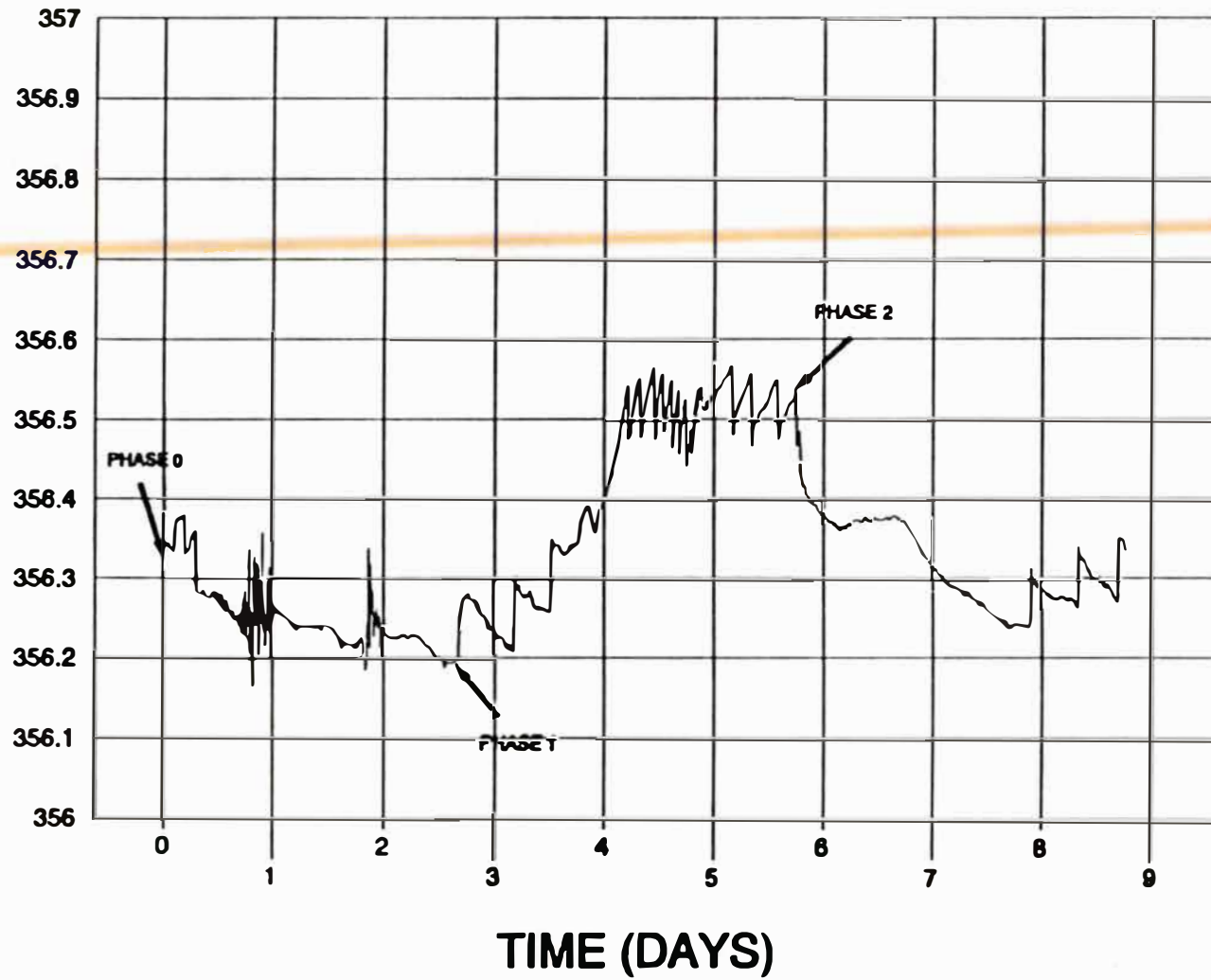
## RW-1 PUMPING TEST

### MW-55D



# MILLER CONTAINER RW-1 PUMPING TEST MW-56D

ELEVATION (FAMSL)



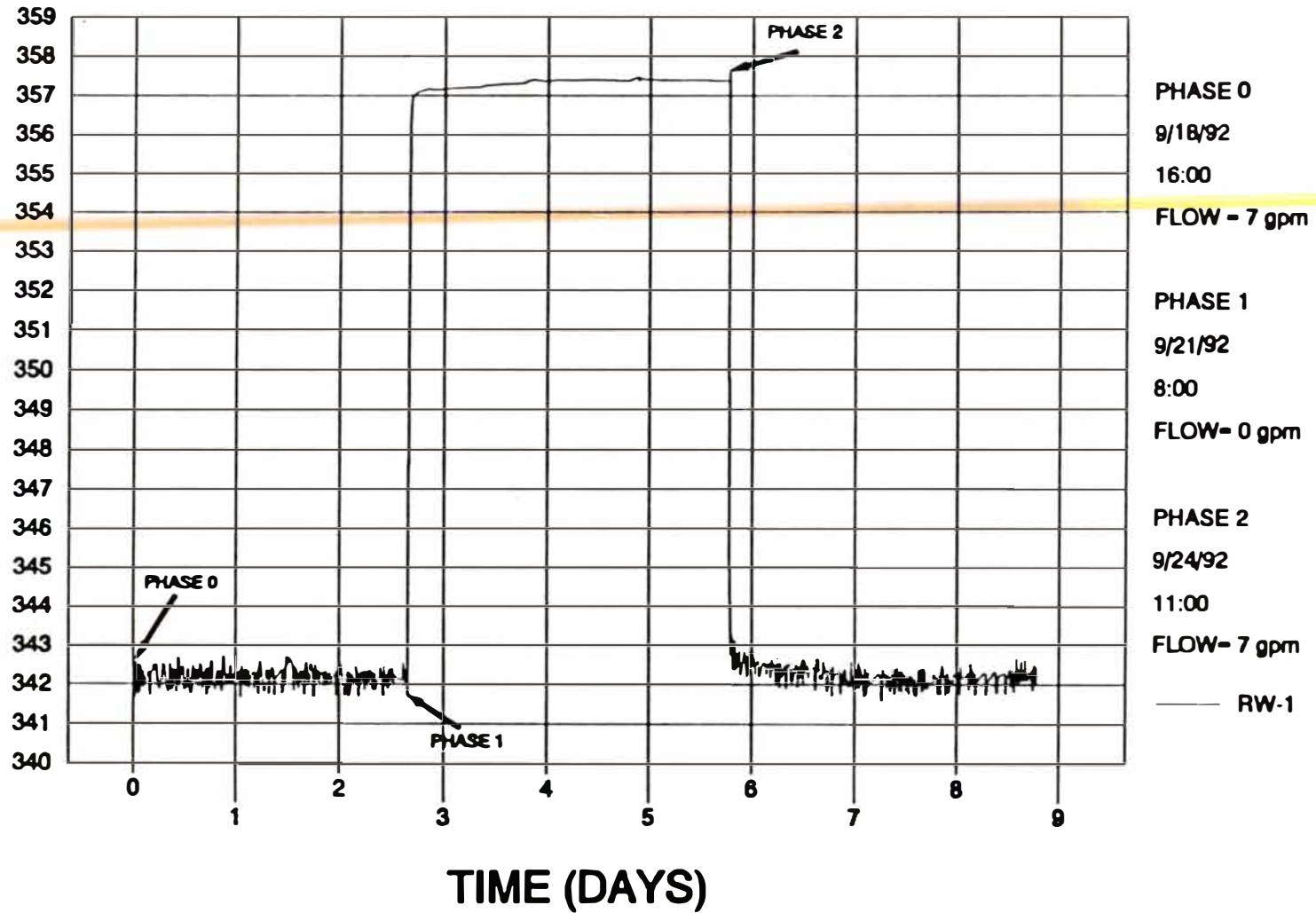


# MILLER CONTAINER

## RW-1 PUMPING TEST

### RW-1

ELEVATION (FAMSL)



**APPENDIX B**

**TRANSMISSIVITY AND STORATIVITY  
GRAPHS**

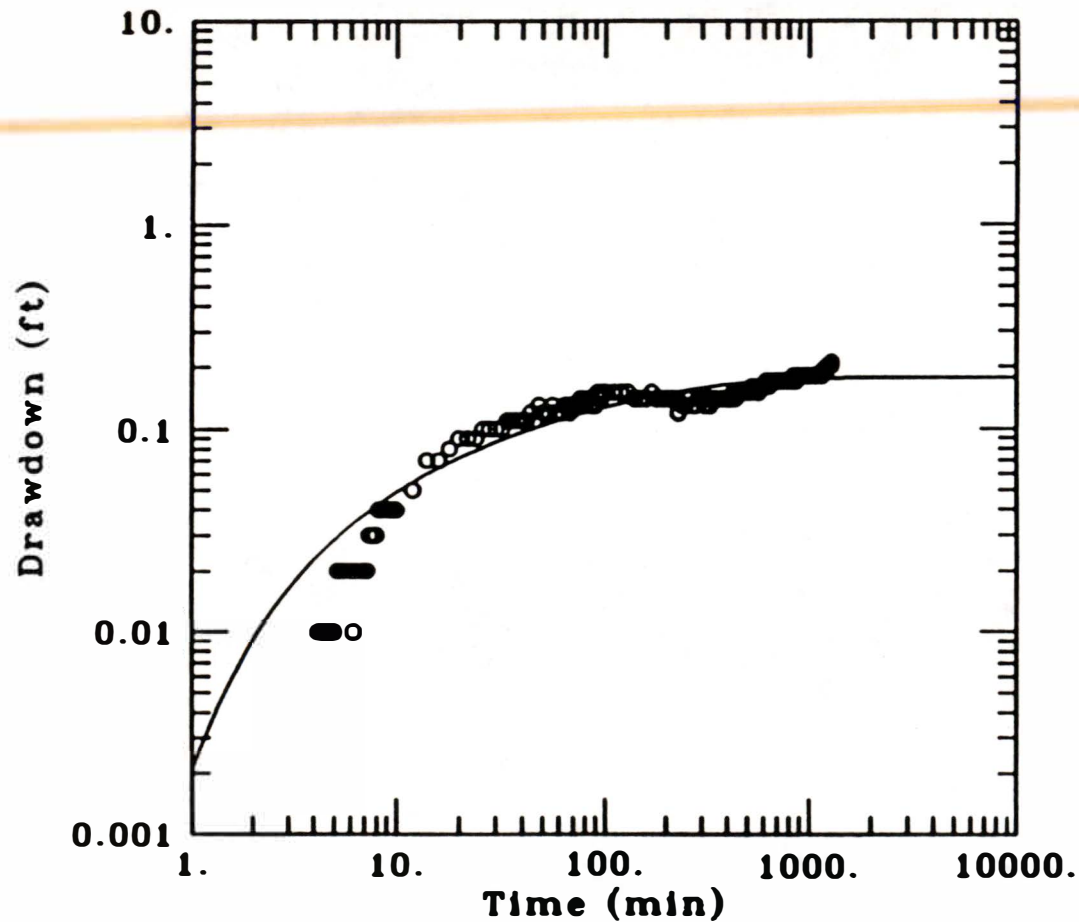
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

## MW-8I



### DATA SET

N8I DAT

### AQUIFER TYPE

Leaky

SOLUTION METHOD

Hantush

TEST DATE

9/92

TEST WELL

RW-1

OBS WELL

MW-8I

### ESTIMATED PARAMETERS

$T = 1.892 \text{ ft}^2/\text{min}$

$S = 0.0009403$

$r/B = 0.1215$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 125 \text{ ft}$

$r_c = 0.5 \text{ ft}$

$r_w = 0.5 \text{ ft}$

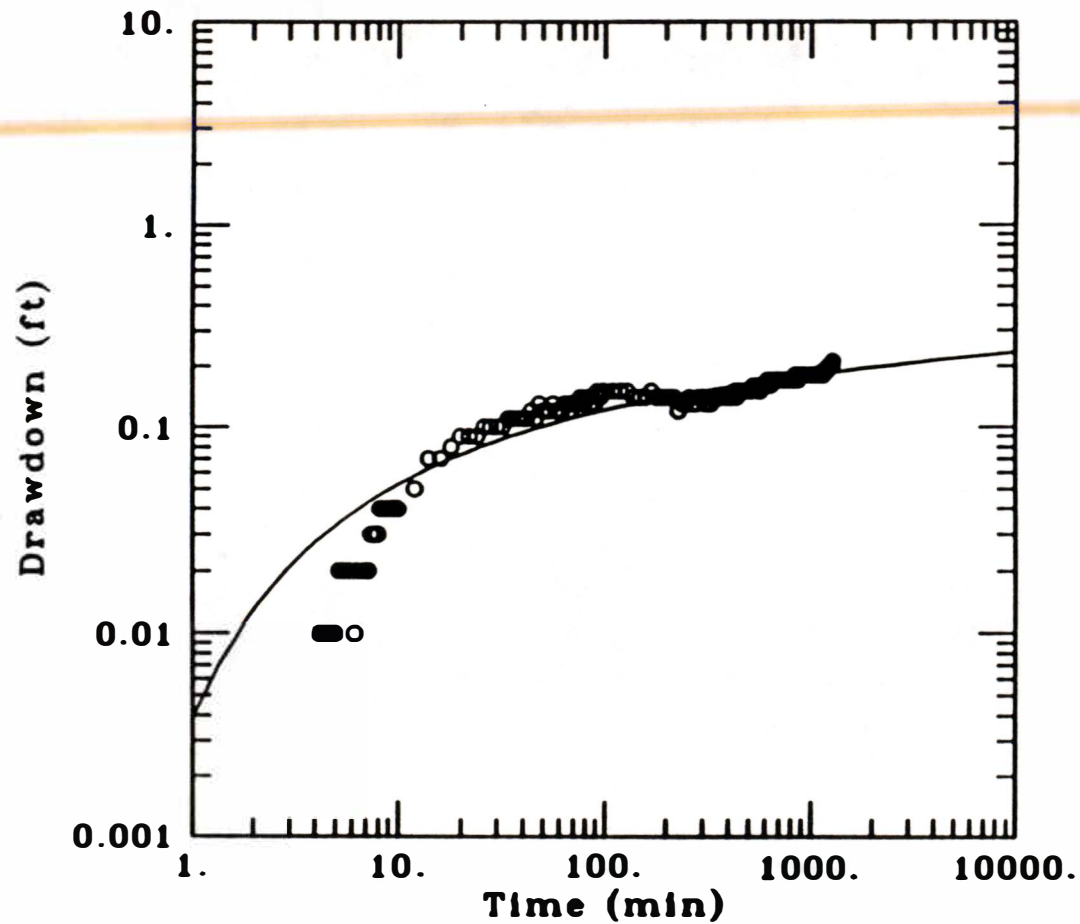
MALCOLM PIRNIE, INC.

Client MILLER CONTAINER

Project No 1028091

Location FULTON, NY

## MW-8I



### DATA SET

N8I DAT

### AQUIFER TYPE

Leaky

SOLUTION METHGD

Hantush

TEST DATE

9/92

TEST WELL

RW-1

OBS WELL

MW-8I

### ESTIMATED PARAMETERS

$T = 1.756 \text{ ft}^2/\text{min}$

$S = 0.0006562$

$\beta = 0.06983$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 125 \text{ ft}$

$r_c = 0.5 \text{ ft}$

$r_w = 0.5 \text{ ft}$

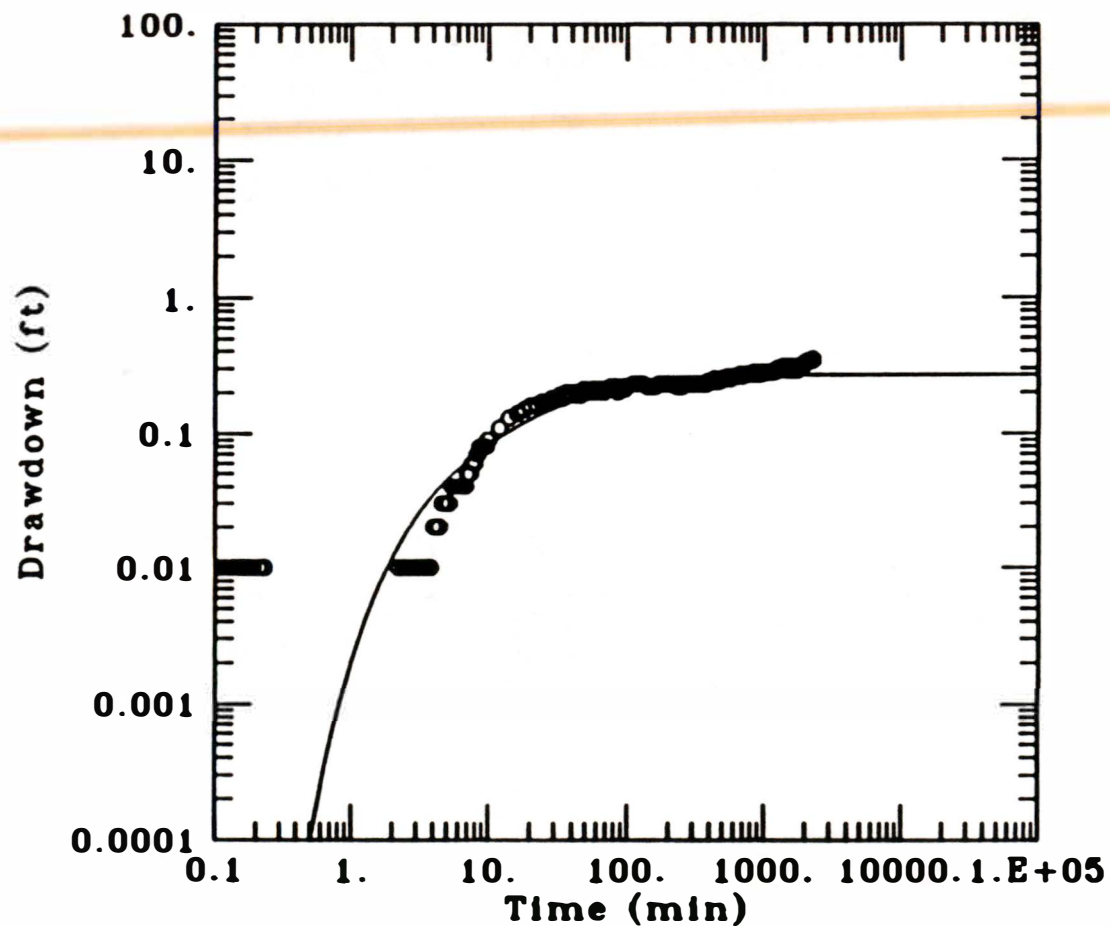
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

## MW-8D



### DATA SET

n8d dat

### AQUIFER TYPE

Leaky

### SOLUTION METHOD

Hantush

### TEST DATE

9/92

### TEST WELL

RW-1

### OBS WELL

MW-8D

### ESTIMATED PARAMETERS

$T = 0.9259 \text{ ft}^2/\text{min}$

$S = 0.0006916$

$r/B = 0.2215$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 115 \text{ ft}$

$rc = 0.5 \text{ ft}$

$rw = 0.5 \text{ ft}$



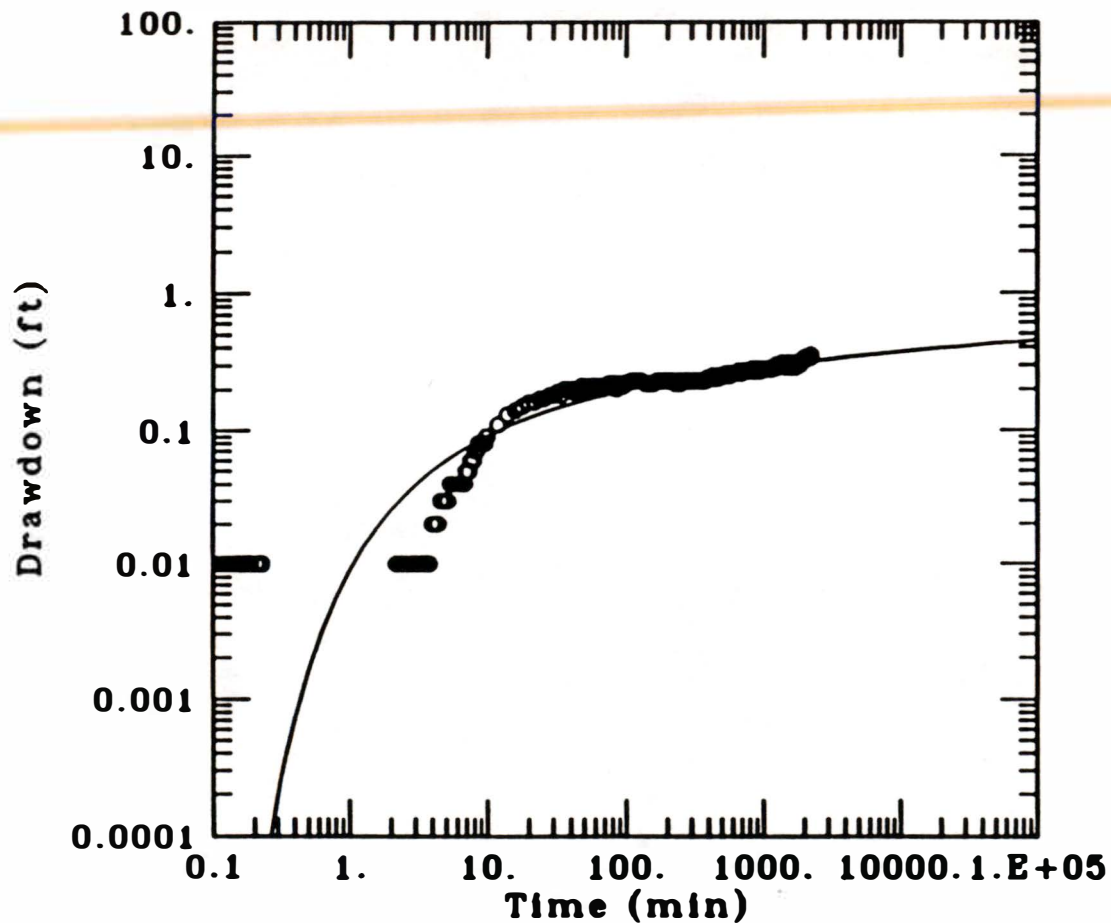
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

## MW-8D



### DATA SET

n8d dat

### AQUIFER TYPE

Leaky

### SOLUTION METHOD

Hantush

### TEST DATE

9/92

### TEST WELL

RW-1

### OBS WELL

MW-8D

### ESTIMATED PARAMETERS

$T = 1.116 \text{ ft}^2/\text{min}$

$S = 0.0004097$

$\beta = 0.07223$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 115 \text{ ft}$

$rc = 0.5 \text{ ft}$

$rw = 0.5 \text{ ft}$

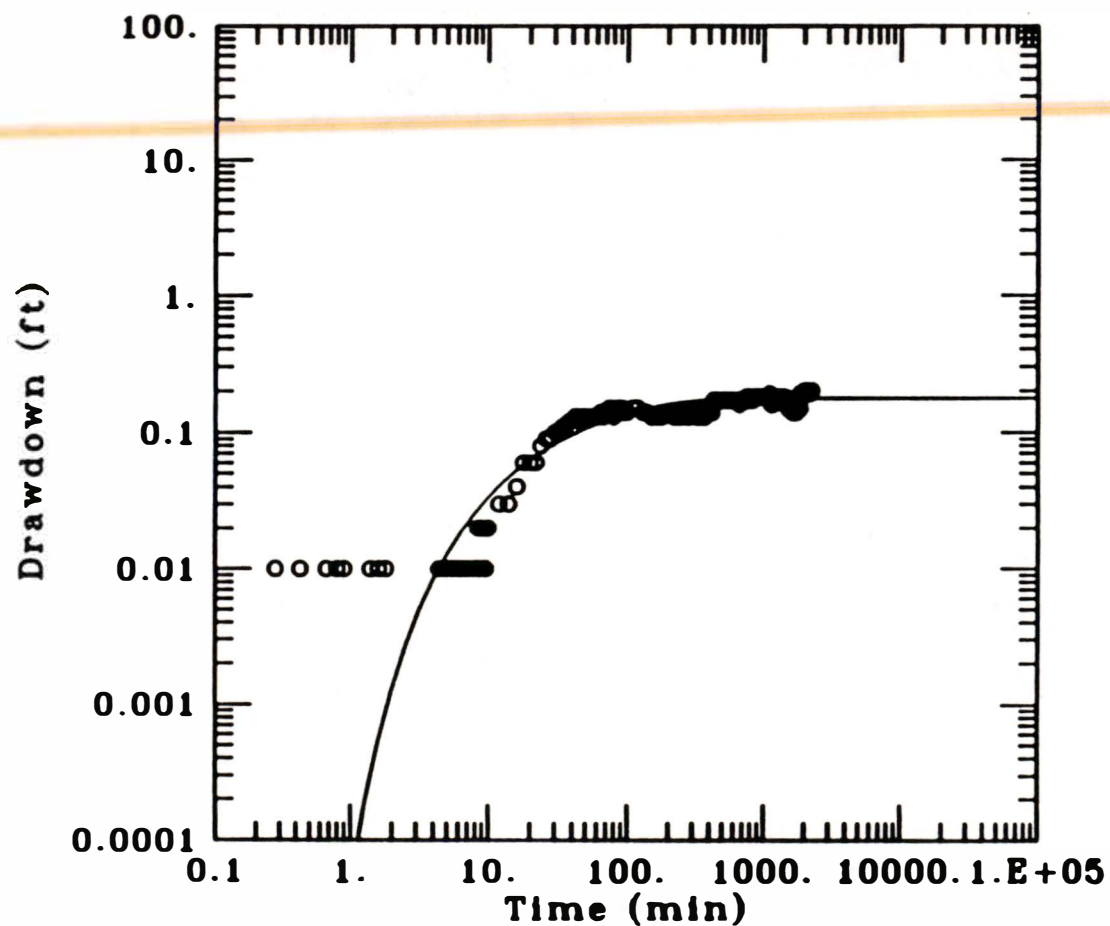
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

## MW-17D



### DATA SET

N17D DAT

### AQUIFER TYPE

Leaky

### SOLUTION METHOD

Hantush

### TEST DATE

9/92

### TEST WELL

RW-1

### OBS WELL

MW-17D

### ESTIMATED PARAMETERS

$T = 1.128 \text{ ft}^2/\text{min}$

$S = 0.002414$

$r/B = 0.3135$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 100 \text{ ft}$

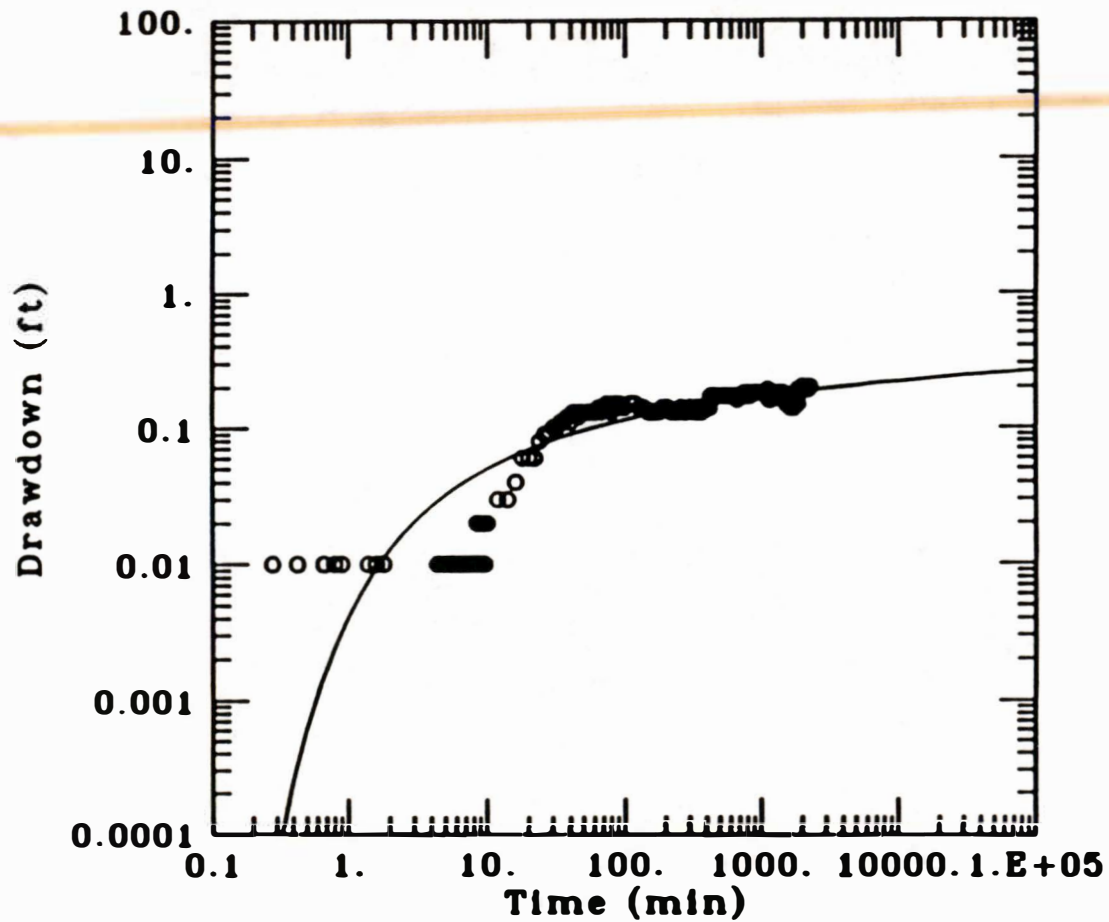
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

### MW-17D



#### DATA SET

n17d dat

#### AQUIFER TYPE

Leaky

#### SOLUTION METHOD

Hantush

#### TEST DATE

9/92

#### TEST WELL

RW-1

#### OBS WELL

MW-17D

#### ESTIMATED PARAMETERS

$T = 2 \text{ ft}^2/\text{min}$

$S = 0.001096$

$\beta = 0.04939$

#### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 100 \text{ ft}$

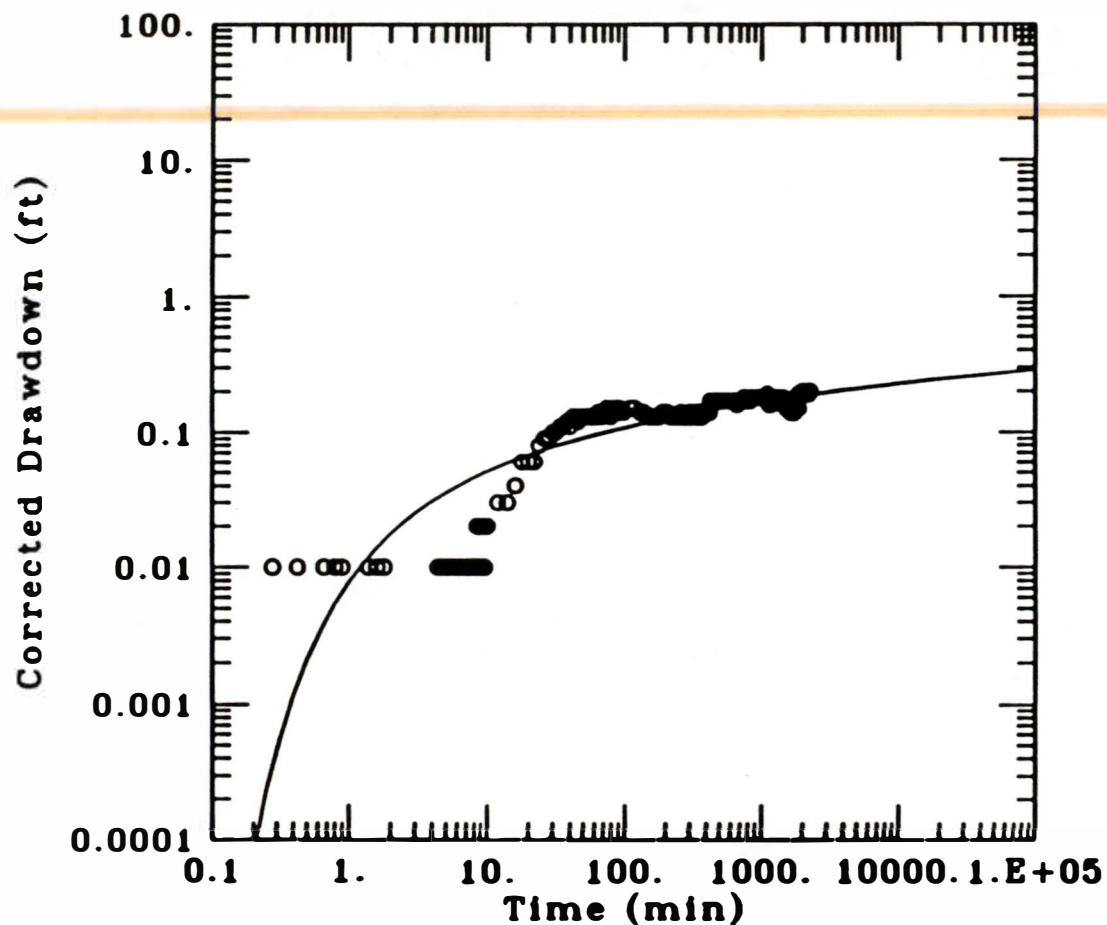
**MALCOLM PIRNIE, INC.**

Client: **MILLER CONTAINER**

Project No: **1028091**

Location: **FULTON, NY**

### MW-17D



#### DATA SET

N17D.DAT

#### AQUIFER TYPE

Unconfined

#### SOLUTION METHOD

Theis

#### TEST DATE

9/92

#### TEST WELL

RW-1

#### OBS. WELL

MW-17D

#### ESTIMATED PARAMETERS

$T = 2.915 \text{ ft}^2/\text{min}$

$S = 0.0008905$

#### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 100 \text{ ft}$

$b = 47.7 \text{ ft}$

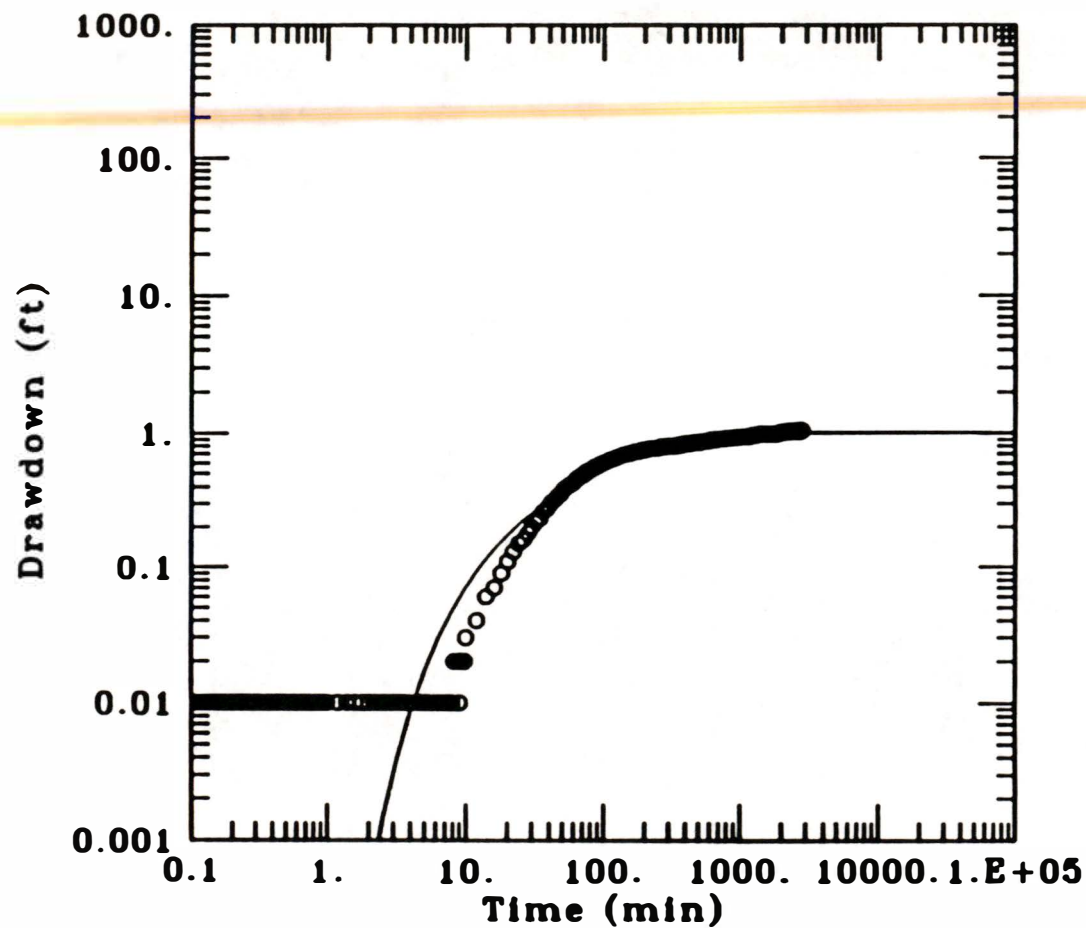
**MALCOLM PIRNIE, INC.**

Client: **MILLER CONTAINER**

Project No: **1028091**

Location: **FULTON, NY**

## MW-19D



### DATA SET

n19d dat

### AQUIFER TYPE

Leaky

### SOLUTION METHOD

Hantush

### TEST DATE

9/92

### TEST WELL

RW-1

### OBS WELL

mw-19d

### ESTIMATED PARAMETERS

$T = 0.2486 \text{ ft}^2/\text{min}$

$S = 0.0007853$

$r/B = 0.2151$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 110 \text{ ft}$

$r_c = 0.5 \text{ ft}$

$r_w = 0.5 \text{ ft}$



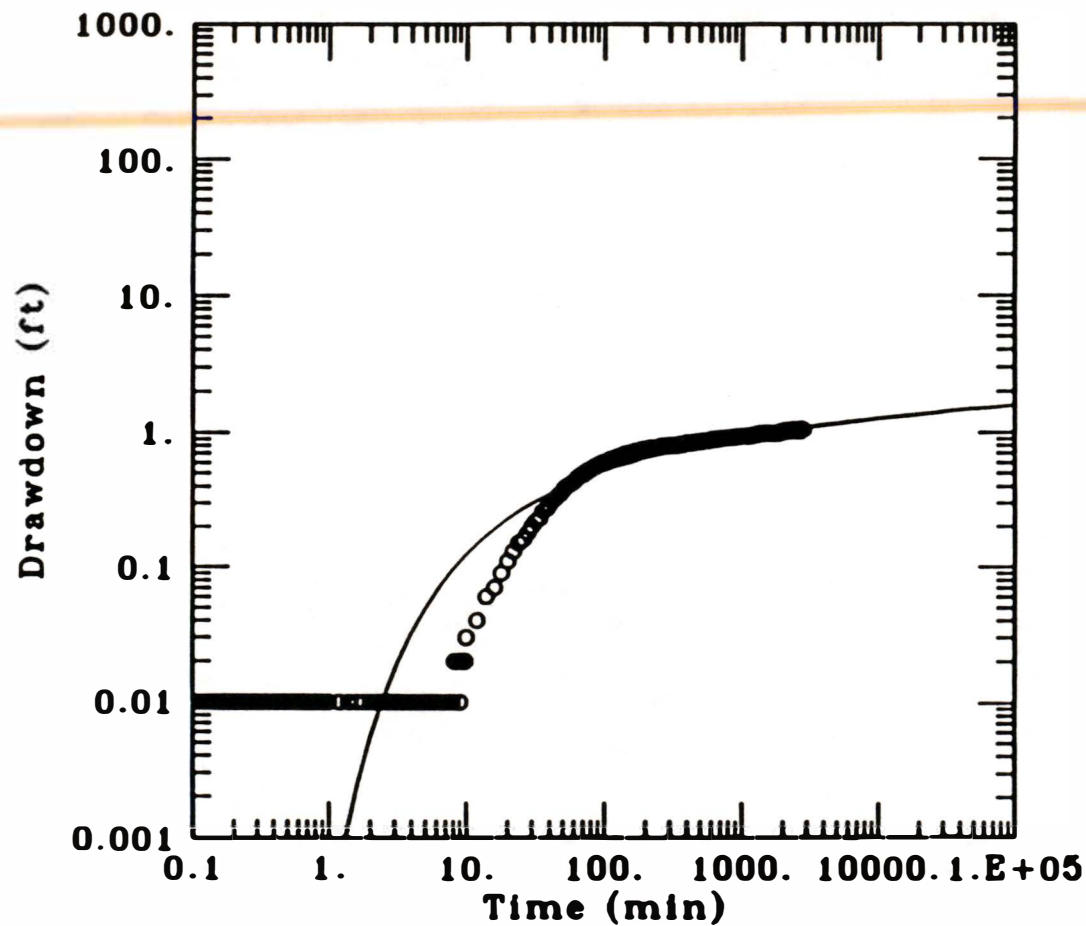
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

### MW-19D



#### DATA SET

n19d dat

#### AQUIFER TYPE

Leaky

#### SOLUTION METHOD

Hantush

#### TEST DATE

9/92

#### TEST WELL

RW-1

#### OBS. WELL

mw-19d

#### ESTIMATED PARAMETERS

$T = 0.29 \text{ ft}^2/\text{min}$

$S = 0.0004837$

$\beta = 0.06269$

#### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 110 \text{ ft}$

$rc = 0.5 \text{ ft}$

$rw = 0.5 \text{ ft}$

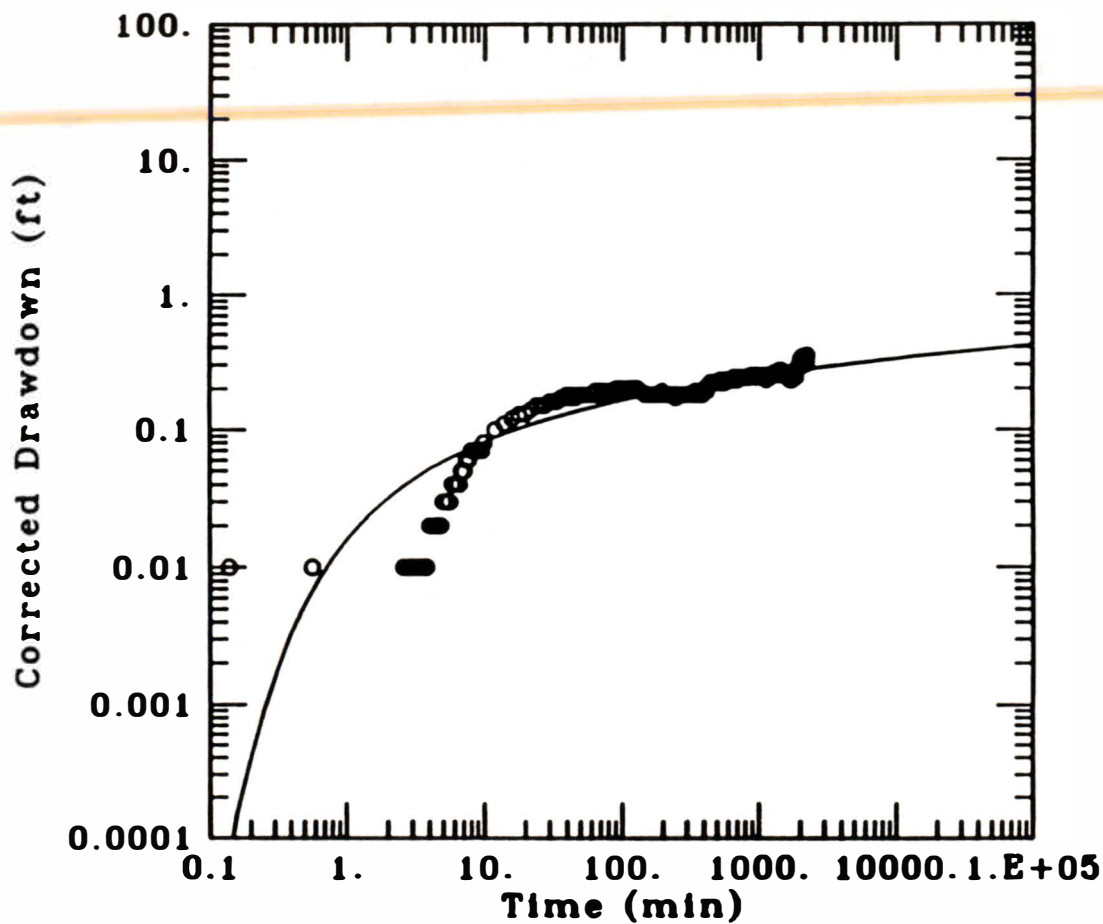
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

## MW-20D



### DATA SET

n20d dat

### AQUIFER TYPE

Unconfined

### SOLUTION METHOD

Theis

### TEST DATE

9/92

### TEST WELL

RW-1

### OBS WELL

MW-20D

### ESTIMATED PARAMETERS

$T = 2.07 \text{ ft}^2/\text{min}$

$S = 0.000316$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 125 \text{ ft}$

$r_c = 0.5 \text{ ft}$

$r_w = 0.5 \text{ ft}$

$b = 71 \text{ ft}$

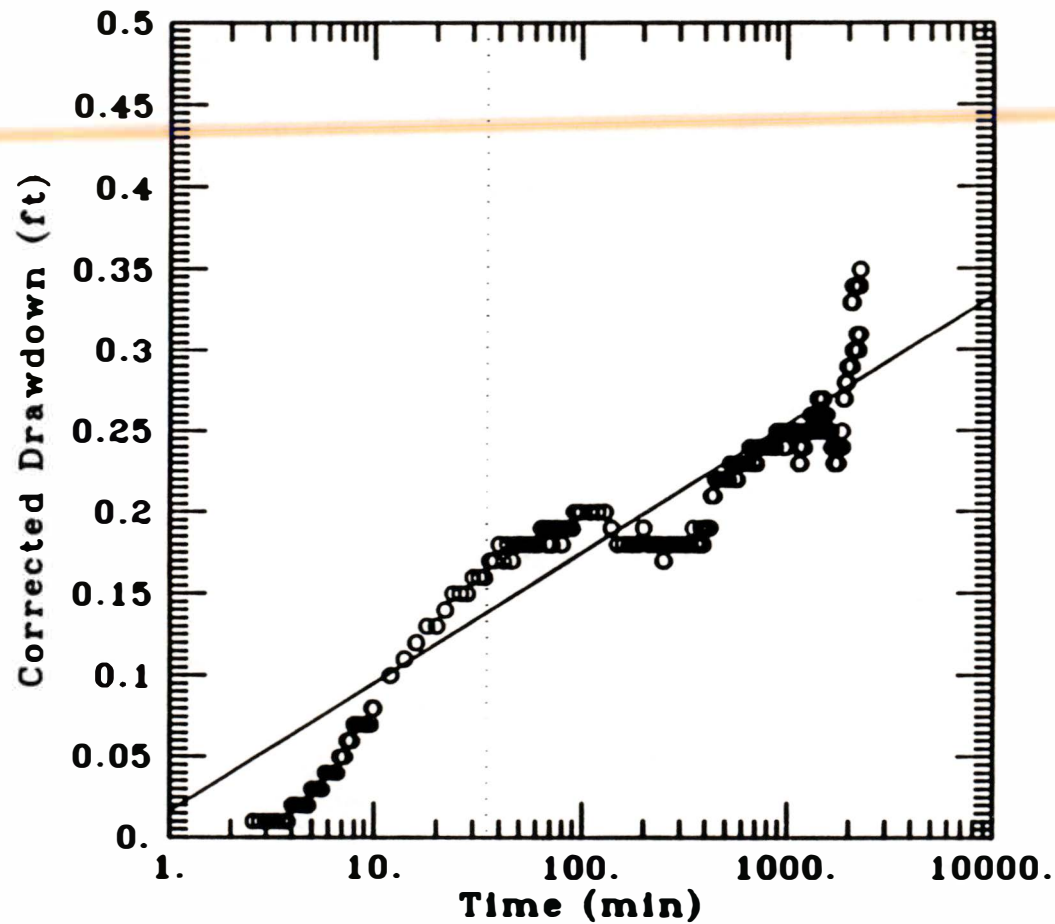
MALCOLM PIRNIE, INC.

Client: MILLER CONTAINER

Project No 1028091

Location: FULTON, NY

## MW-20D



### DATA SET

n20d dat

### AQUIFER TYPE

Unconfined

### SOLUTION METHOD

Cooper-Jacob

### TEST DATE

9/92

### TEST WELL

RW-1

### OBS WELL

MW-20D

### ESTIMATED PARAMETERS

$T = 2.174 \text{ ft}^2/\text{min}$

$S = 0.0001945$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 125 \text{ ft}$

$r_c = 0.5 \text{ ft}$

$r_w = 0.5 \text{ ft}$

$b = 71 \text{ ft}$



RW-1 Pumping Test

Miller Container Fulton, NY

MW-20D

$$Q = 0.94 \text{ ft}^3/\text{min}$$

$$r = 125 \text{ feet}$$

$$AS = 0.268 - 0.075 = 0.193$$

$$t_0 = 3.75 \text{ min}$$

$$T = \frac{2303 Q}{4\pi AS}$$

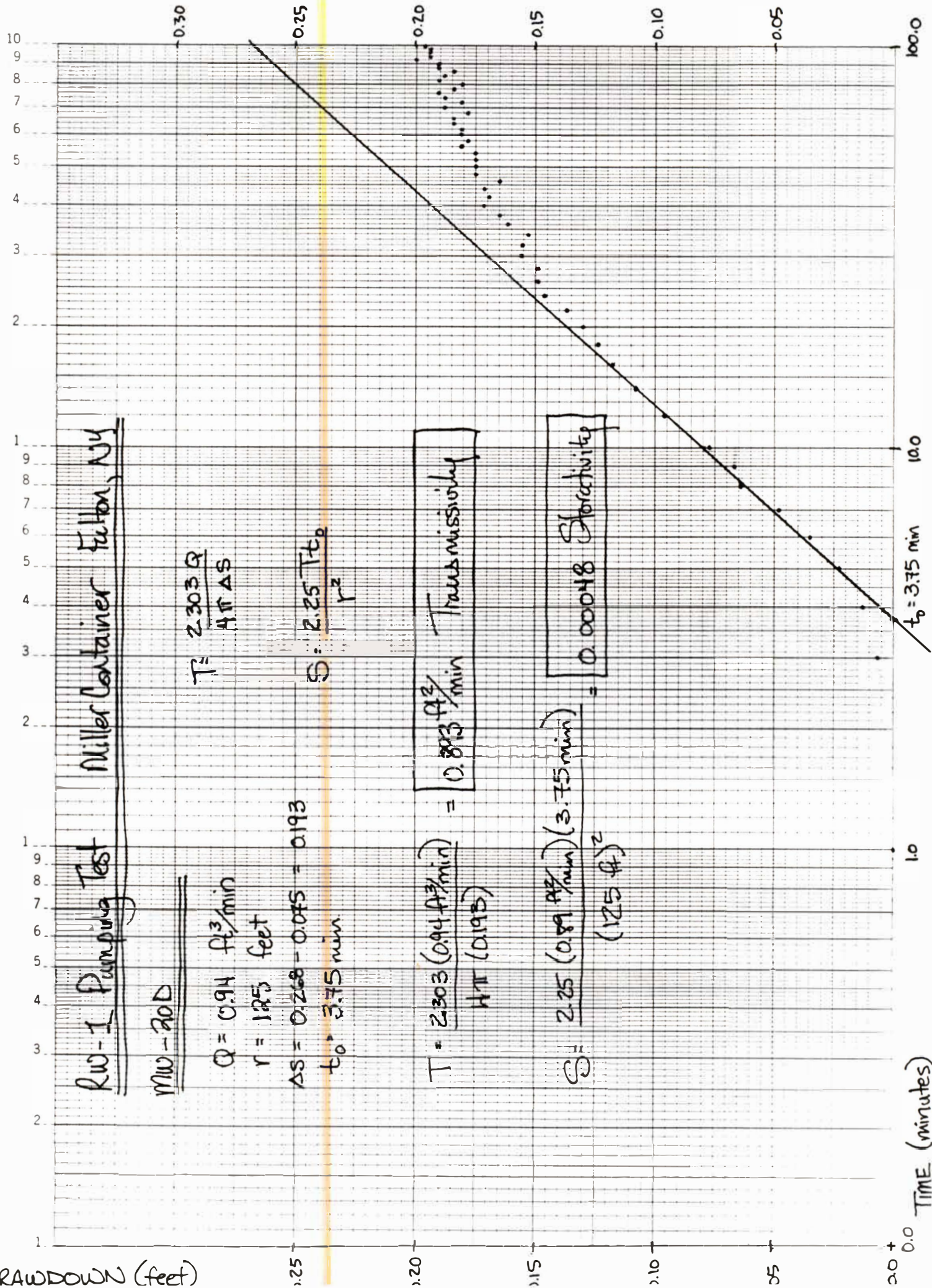
$$S = \frac{2.25 T t_0}{r^2}$$

$$T = \frac{2303 (0.94 \text{ ft}^3/\text{min})}{4\pi (0.193)} = 0.803 \text{ ft}^2/\text{min}$$

$$T_{\text{transmissivity}}$$

$$S = \frac{2.25 (0.803 \text{ ft}^2/\text{min}) (3.75 \text{ min})}{(125 \text{ ft})^2} = 0.00048 \text{ Storage}$$

$$S_{\text{Storage}}$$



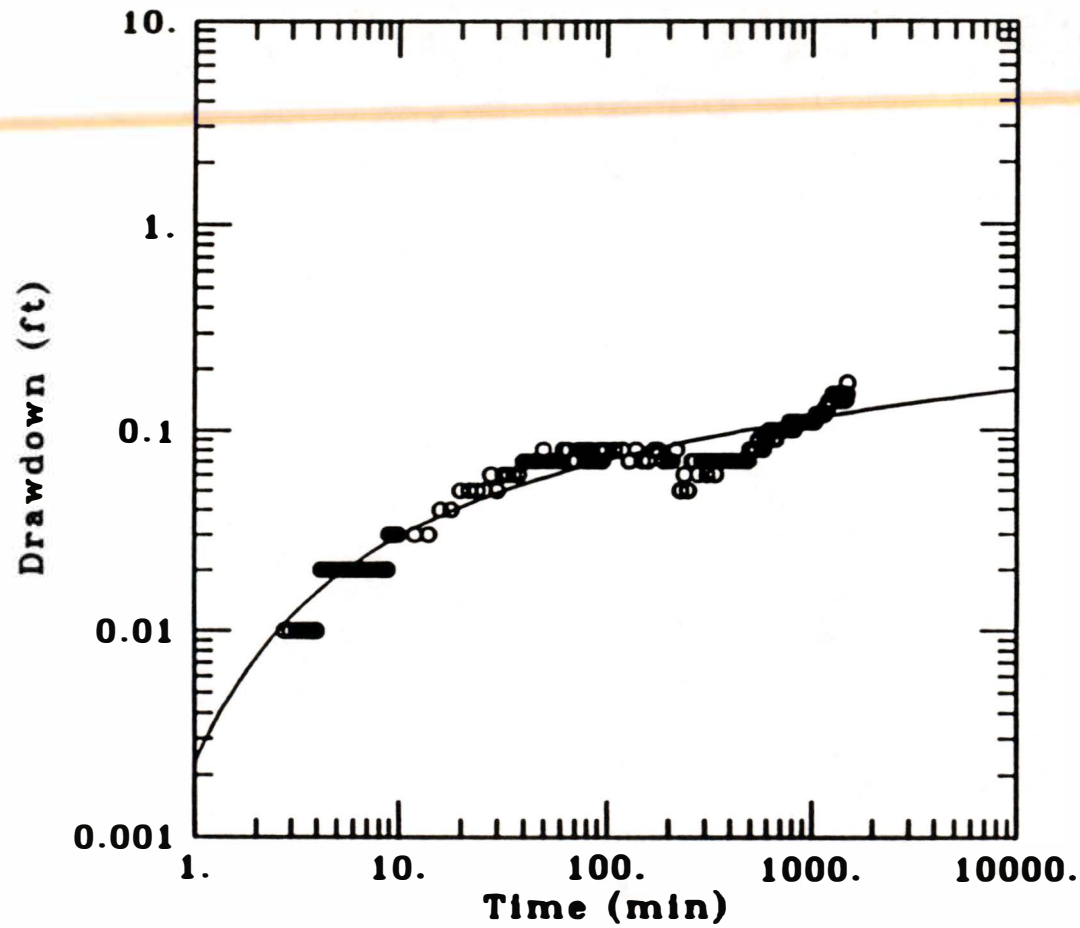
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

**MW-511**



DATA SET

N511 DAT

AQUIFER TYPE

Leaky

SOLUTION METHOD

Hantush

TEST DATE

9/92

TEST WELL

RW-1

OBS. WELL

MW-511

ESTIMATED PARAMETERS

$T = 3.944 \text{ ft}^2/\text{min}$

$S = 0.0004294$

$r/B = 1 \text{ E-05}$

TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 224 \text{ ft}$

$r_c = 0.5 \text{ ft}$

$r_w = 0.5 \text{ ft}$



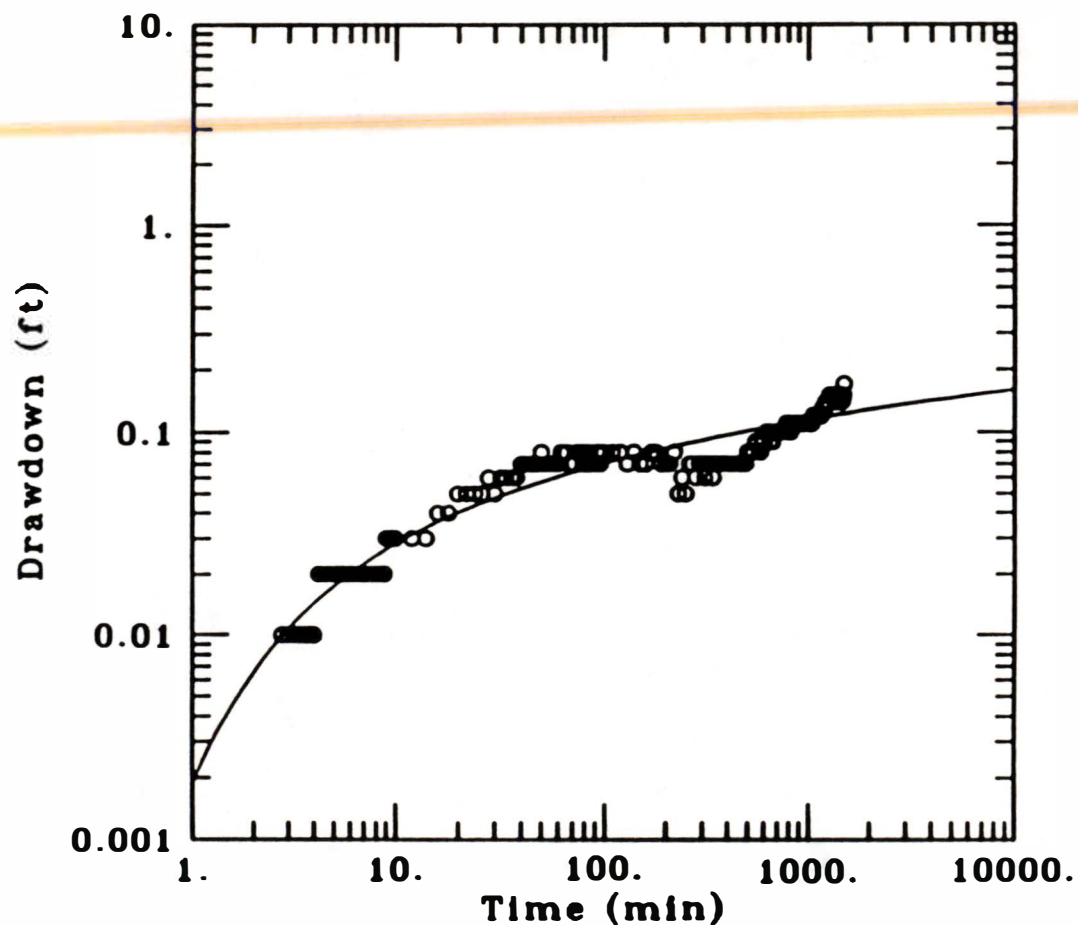
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

## MW-51I



### DATA SET

n51i.dat

### AQUIFER TYPE

Leaky

### SOLUTION METHOD

Hantush

### TEST DATE

9/92

### TEST WELL

RW-1

### OBS WELL

MW-51I

### ESTIMATED PARAMETERS

$T = 3.853 \text{ ft}^2/\text{min}$

$S = 0.0004654$

$\beta = 1 \text{ E-}05$

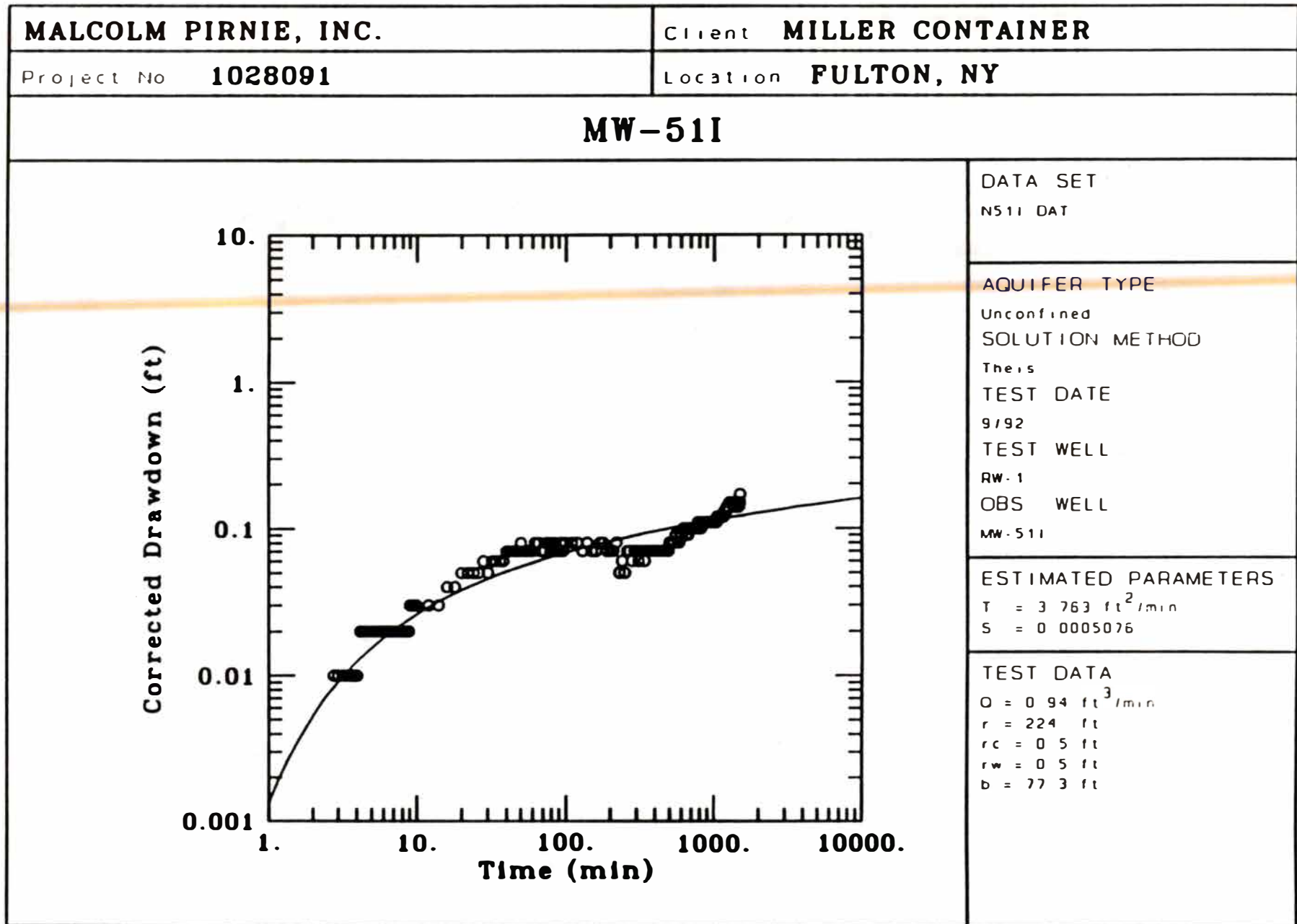
### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 224 \text{ ft}$

$r_c = 0.5 \text{ ft}$

$r_w = 0.5 \text{ ft}$



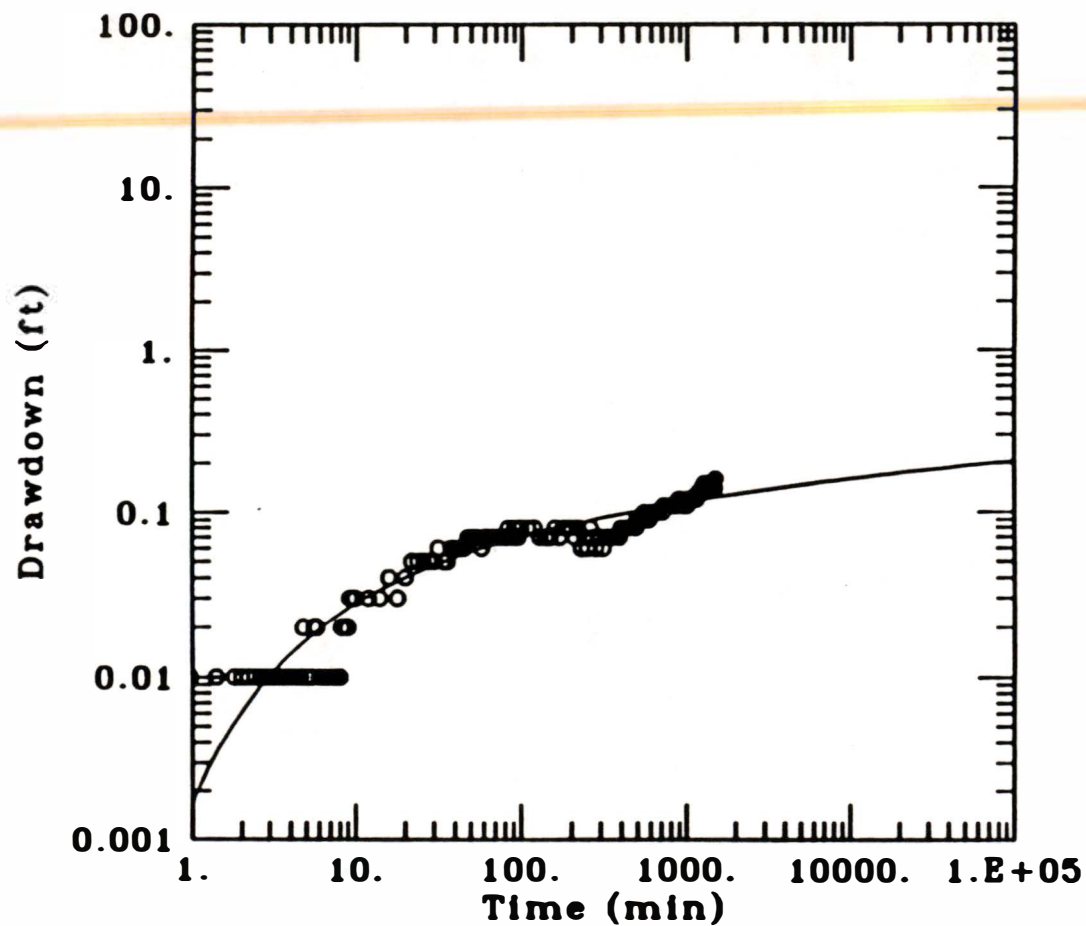
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

## MW-51D



### DATA SET

NS1D DAT

### AQUIFER TYPE

Leaky

### SOLUTION METHOD

Hantush

### TEST DATE

9/92

### TEST WELL

RW-1

### OBS WELL

MW-51D

### ESTIMATED PARAMETERS

$T = 3.802 \text{ ft}^2/\text{min}$

$S = 0.0004968$

$r/B = 1 \text{ E-}05$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 221 \text{ ft}$

$r_c = 0.5 \text{ ft}$

$r_w = 0.5 \text{ ft}$

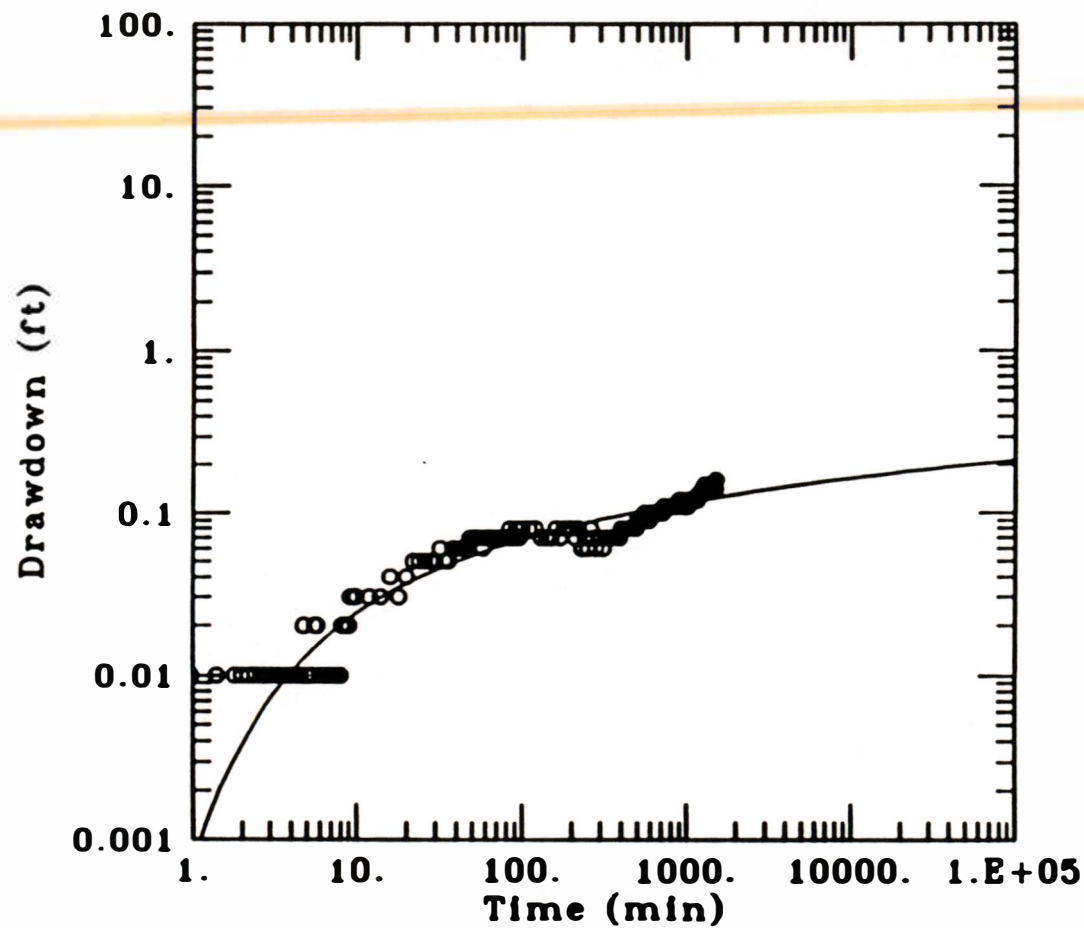
**MALCOLM PIRNIE, INC.**

Client: **MILLER CONTAINER**

Project No: **1028091**

Location: **FULTON, NY**

## MW-51D



### DATA SET

n51d dat

### AQUIFER TYPE

Leaky

### SOLUTION METHOD

Hantush

### TEST DATE

9/92

### TEST WELL

RW-1

### OBS WELL

MW-51D

### ESTIMATED PARAMETERS

$T = 3.565 \text{ ft}^2/\text{min}$

$S = 0.0006513$

$\beta = 1 \cdot 10^{-5}$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 221 \text{ ft}$

$rc = 0.5 \text{ ft}$

$rw = 0.5 \text{ ft}$

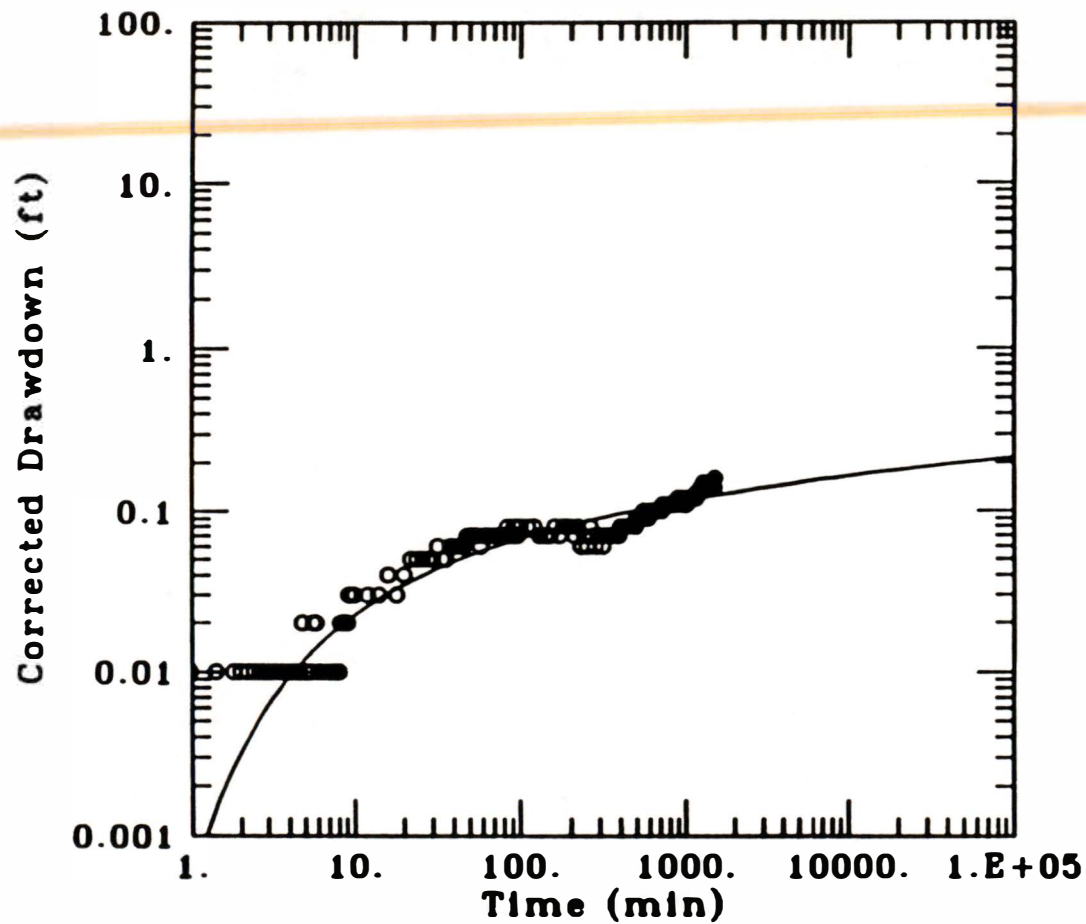
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

## MW-51D



### DATA SET

N51D.DAT

### AQUIFER TYPE

Unconfined

### SOLUTION METHOD

Theis

### TEST DATE

9/92

### TEST WELL

RW-1

### OBS WELL

MW-51D

### ESTIMATED PARAMETERS

$T = 3.488 \text{ ft}^2/\text{min}$

$S = 0.0006749$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

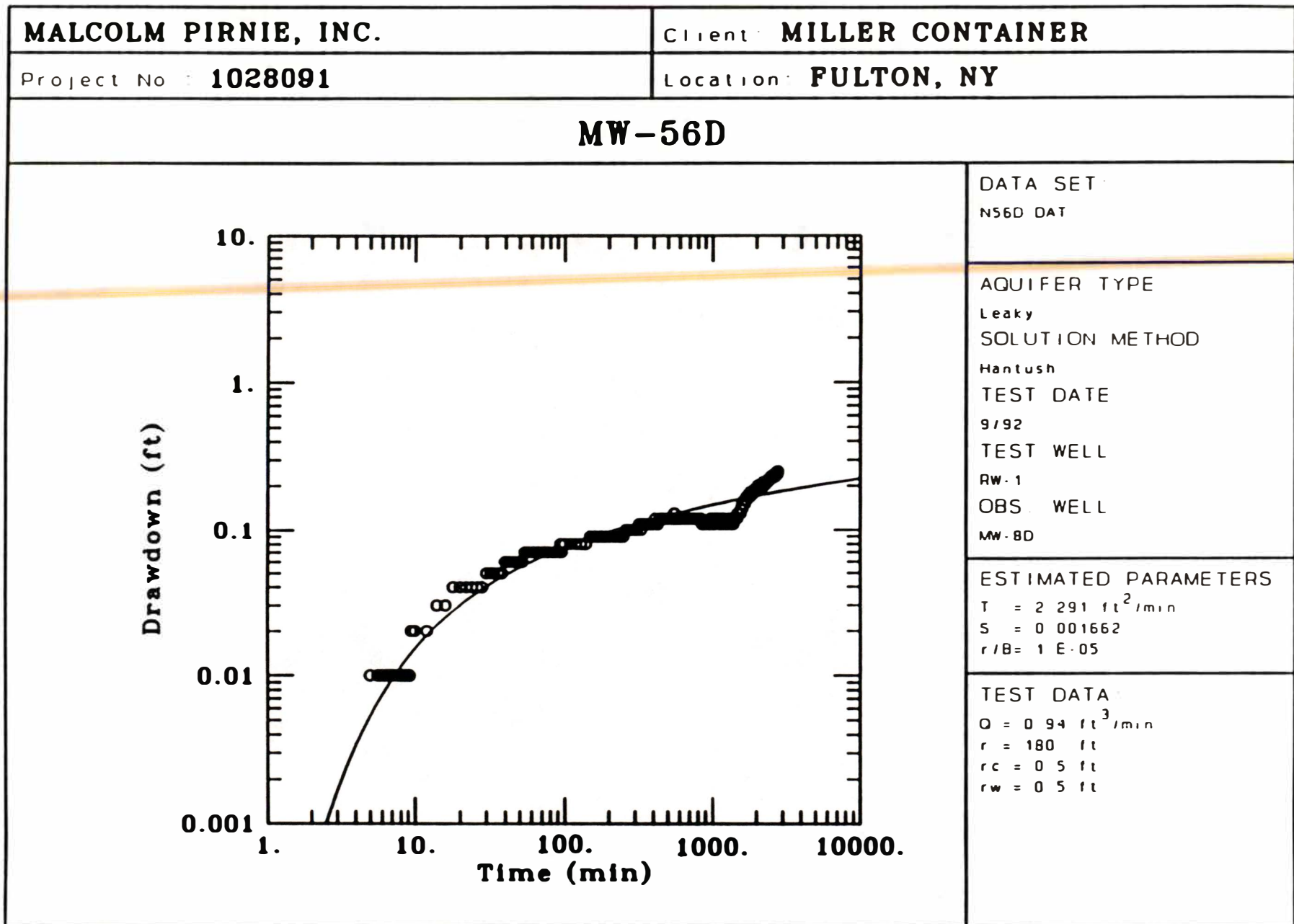
$r = 221 \text{ ft}$

$r_c = 0.5 \text{ ft}$

$r_w = 0.5 \text{ ft}$

$b = 77.3 \text{ ft}$





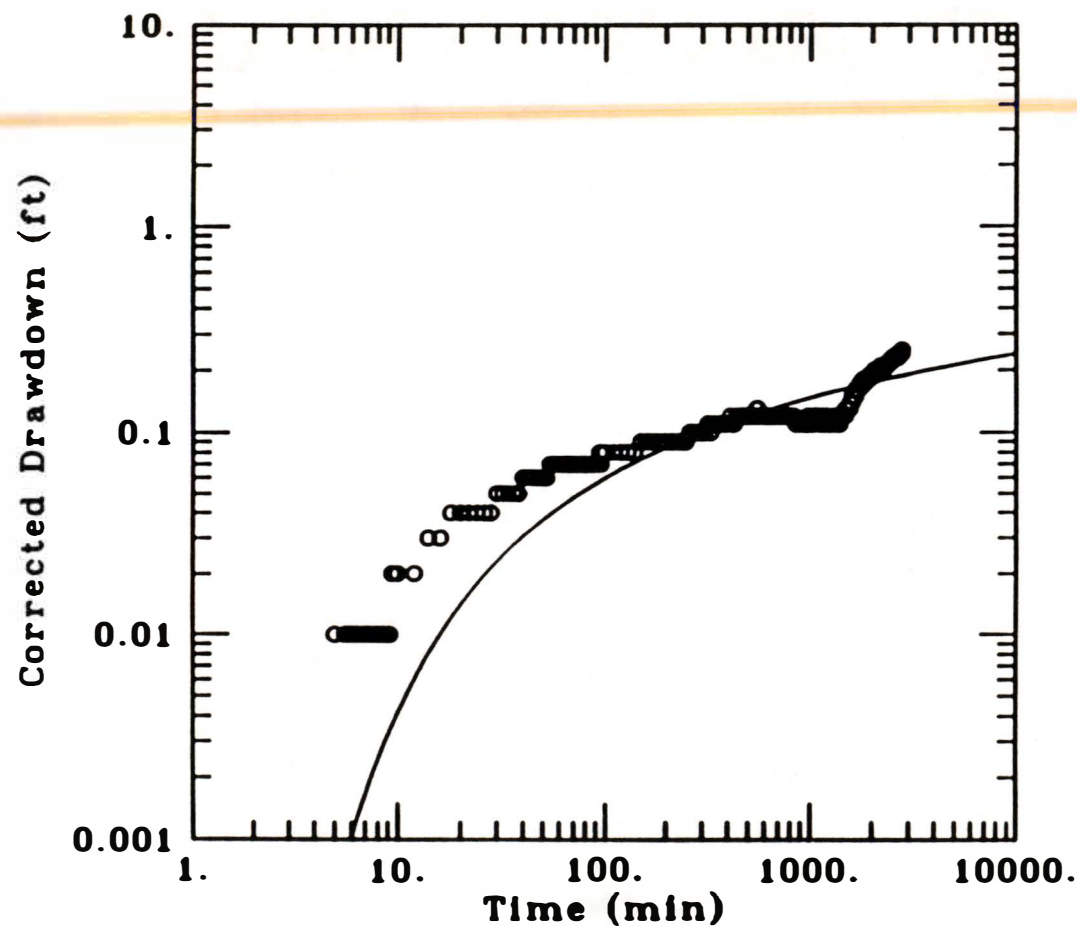
**MALCOLM PIRNIE, INC.**

Client **MILLER CONTAINER**

Project No **1028091**

Location **FULTON, NY**

## MW-56D



### DATA SET

N56D DAT

### AQUIFER TYPE

Unconfined

### SOLUTION METHOD

Theis

### TEST DATE

9/92

### TEST WELL

RW-1

### OBS WELL

MW-56D

### ESTIMATED PARAMETERS

$T = 1.856 \text{ ft}^2/\text{min}$

$S = 0.003222$

### TEST DATA

$Q = 0.94 \text{ ft}^3/\text{min}$

$r = 180 \text{ ft}$

$r_c = 0.5 \text{ ft}$

$r_w = 0.5 \text{ ft}$

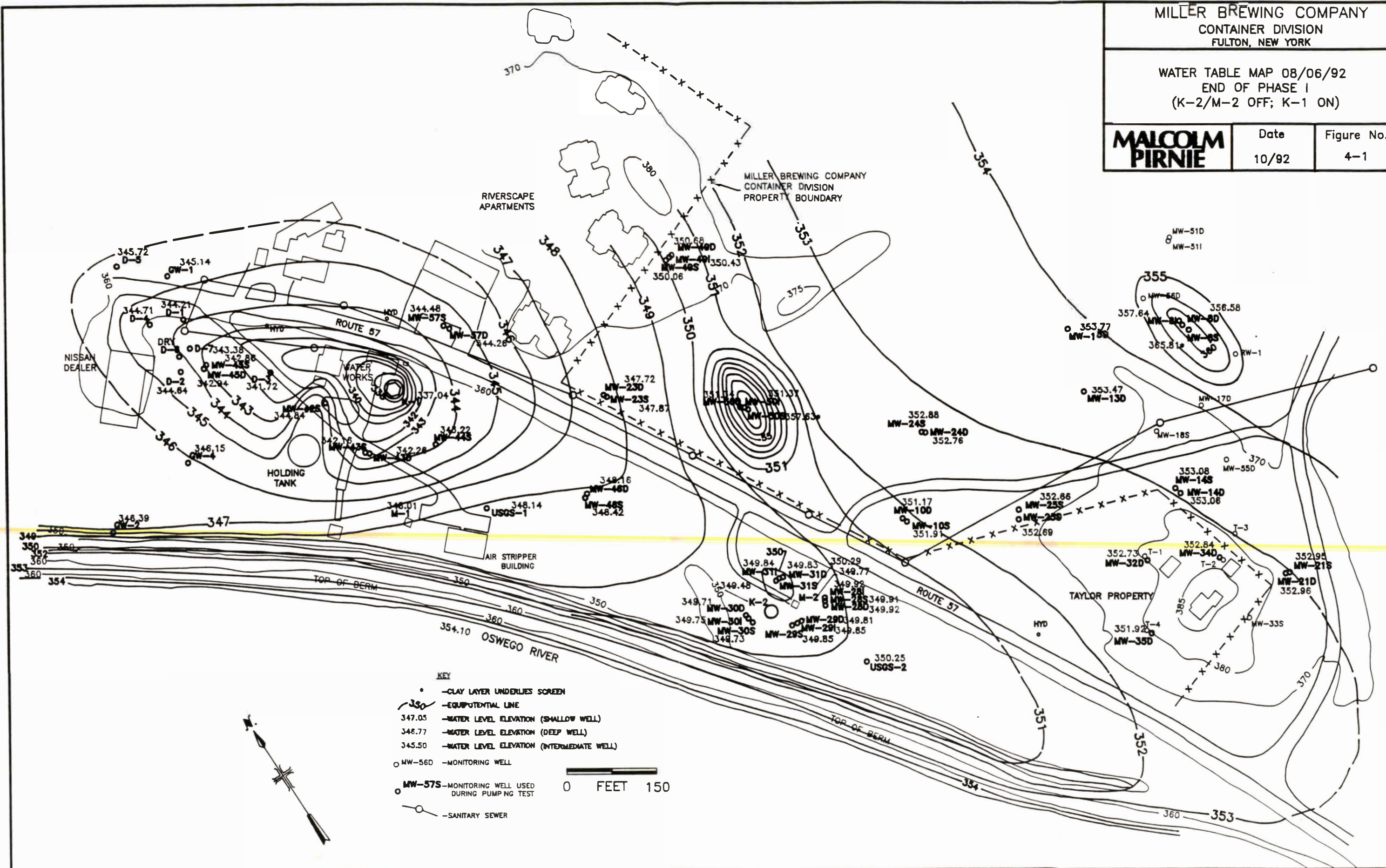
$b = 56.16 \text{ ft}$



**MALCOLM  
PIRNIE**

Date  
10/92

Figure No.  
4-1

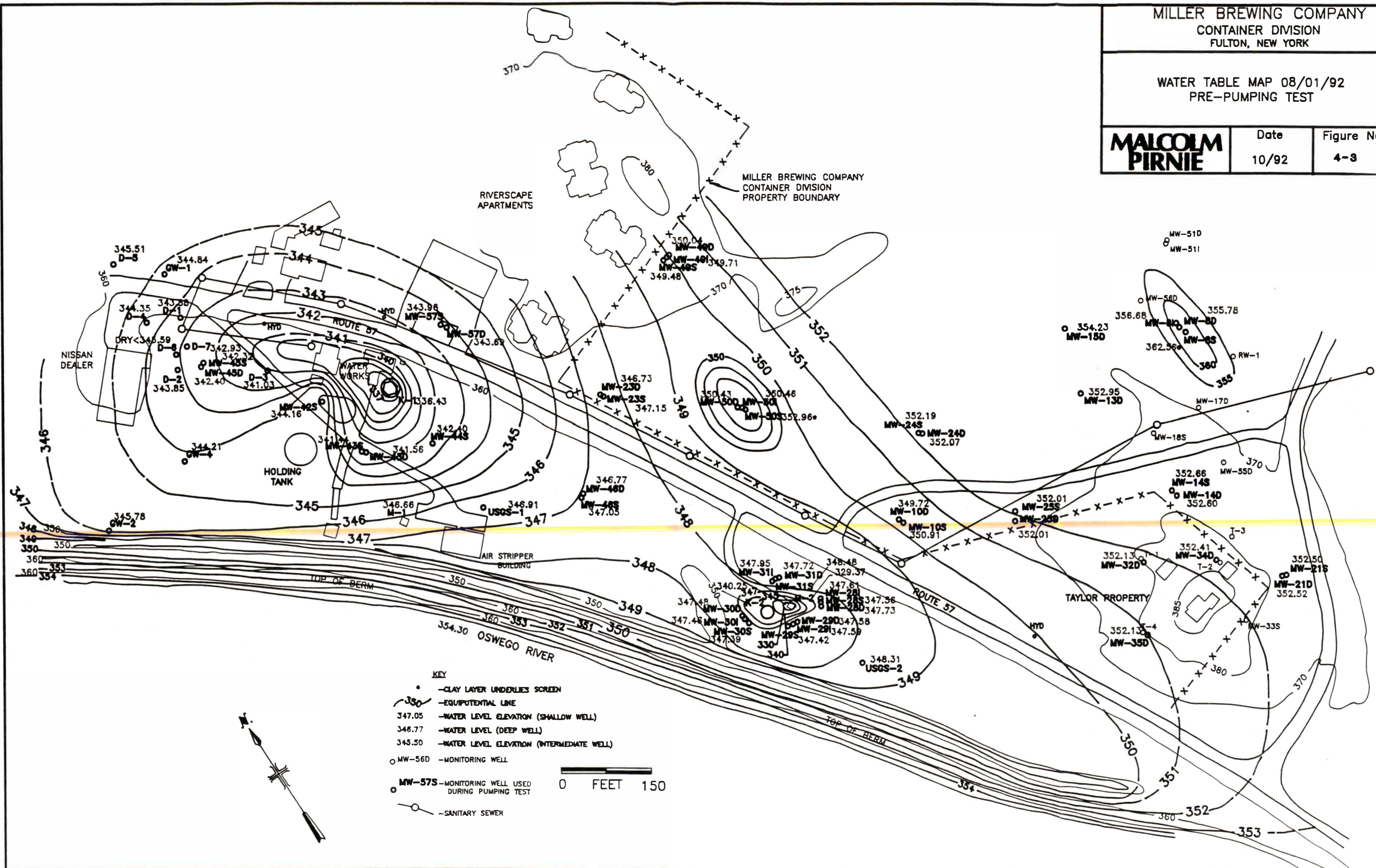




**MALCOLM  
PIRNIE**

Date  
10/92

Figure No.  
4-3

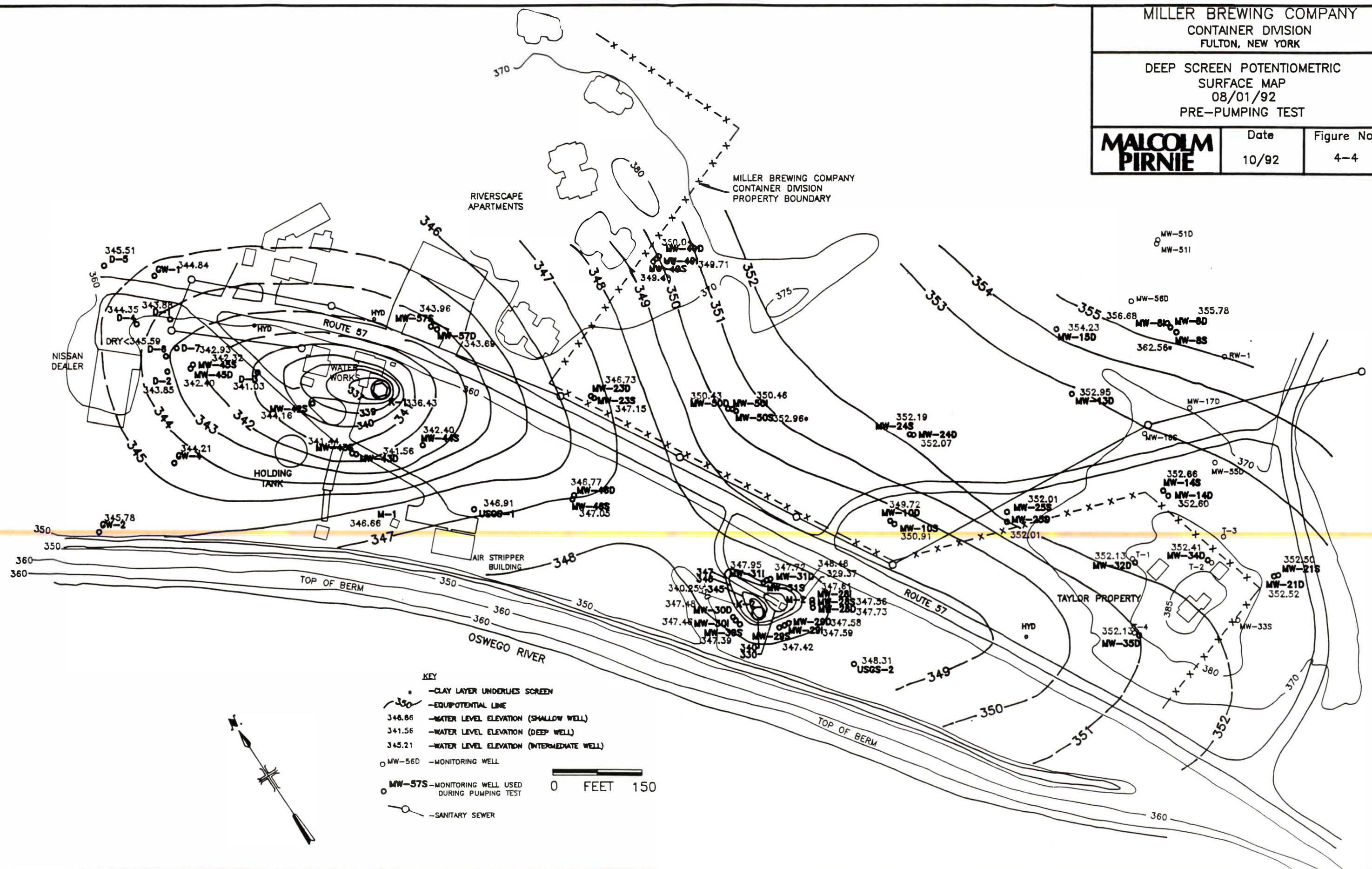




|                                                                           |       |            |
|---------------------------------------------------------------------------|-------|------------|
| DEEP SCREEN POTENTIOMETRIC<br>SURFACE MAP<br>08/01/92<br>PRE-PUMPING TEST |       |            |
| <b>MALCOLM<br/>PIRNIE</b>                                                 | Date  | Figure No. |
|                                                                           | 10/92 | 4-4        |

**MALCOLM  
PIRNIE**

|       |            |
|-------|------------|
| Date  | Figure No. |
| 10/92 | 4-4        |





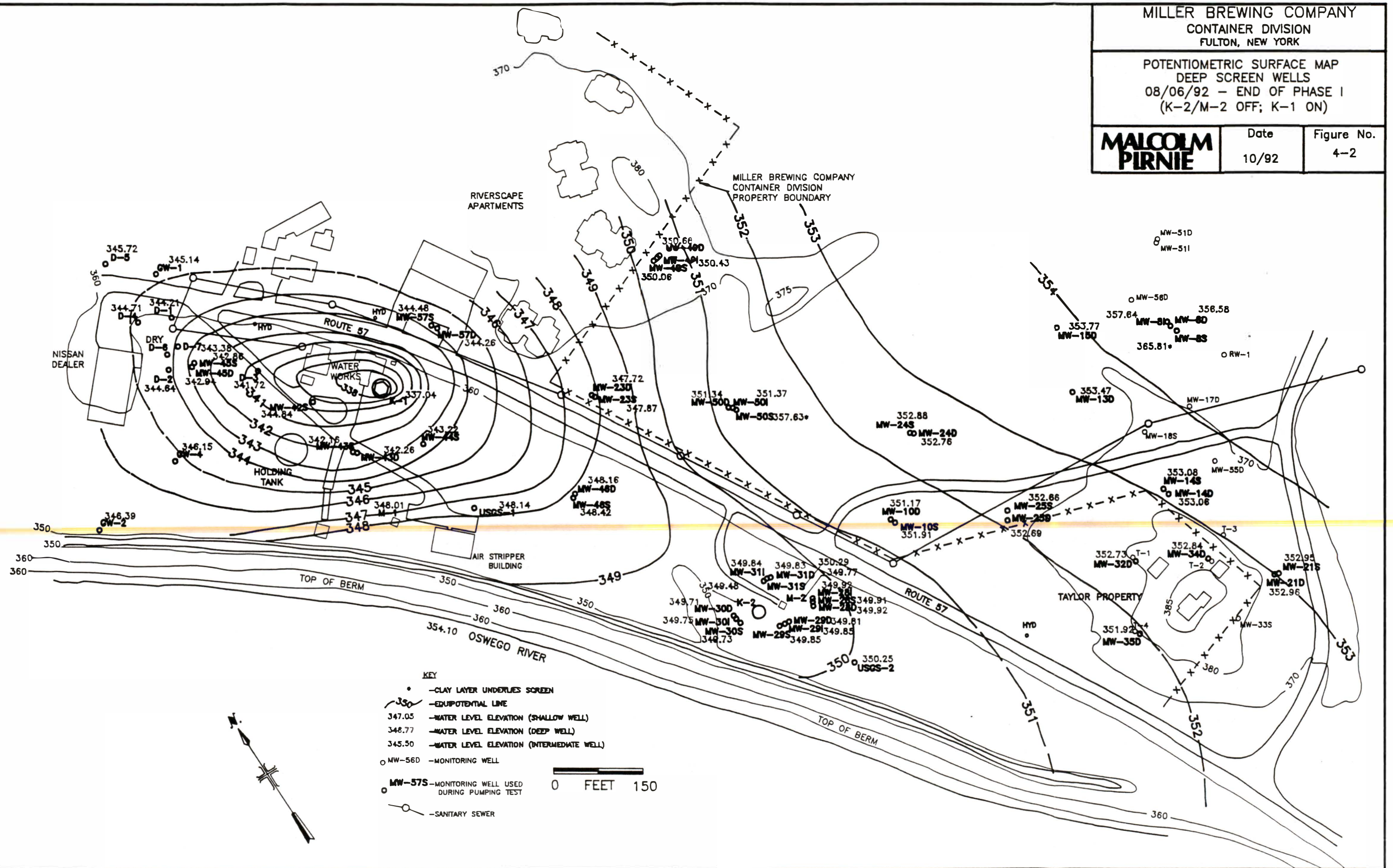
MILLER BREWING COMPANY  
CONTAINER DIVISION  
FULTON, NEW YORK

POTENTIOMETRIC SURFACE MAP  
DEEP SCREEN WELLS  
08/06/92 - END OF PHASE I  
(K-2/M-2 OFF; K-1 ON)

**MALCOLM  
PIRNIE**

Date  
10/92

Figure No.  
4-2



The corrected water level recovery at USGS-2 during Phase I was 1.38 feet. MW-46S and MW-46D both showed about the same increase in water level (0.86 and 0.83 foot) during Phase I, and the pumping wells K-2 and M-2 gained 8.57 and 19.61 feet, respectively, in corrected water levels.

The pumps in K-2/M-2 remained off until August 19; however, by August 6 (start of Phase II), water levels in the wells surrounding K-2/M-2 had essentially stabilized. During the period from August 6 to August 10, the pumps in K-1 were also off except for about 24 hours of intermittent pumping. This resulted in additional recovery around K-2/M-2 since, as will be shown later, the drawdown cone around K-1 extends into the K-2/M-2 area.

A slight upward flow component typically exists between wells in the clusters immediately around K-2 and M-2, as shown on Figures 4-3 and 4-4, except at cluster MW-31S,I,D where the water levels at MW-31S and MW-31I are often mounded above the deeper screen well. By August 10, a more horizontal flow component had developed at all four clusters, as shown on Figures 4-5 and 4-6. This is indicative of the stabilization of the aquifer in response to the lack of pumping at the K-2/M-2 system. The occurrence of the slightly mounded condition at MW-31S,I is enigmatic. Of note, however, is the frequent presence of trihalomethanes (THMs) in the intermediate well MW-31I which seems to indicate a source of chlorinated water in the area.

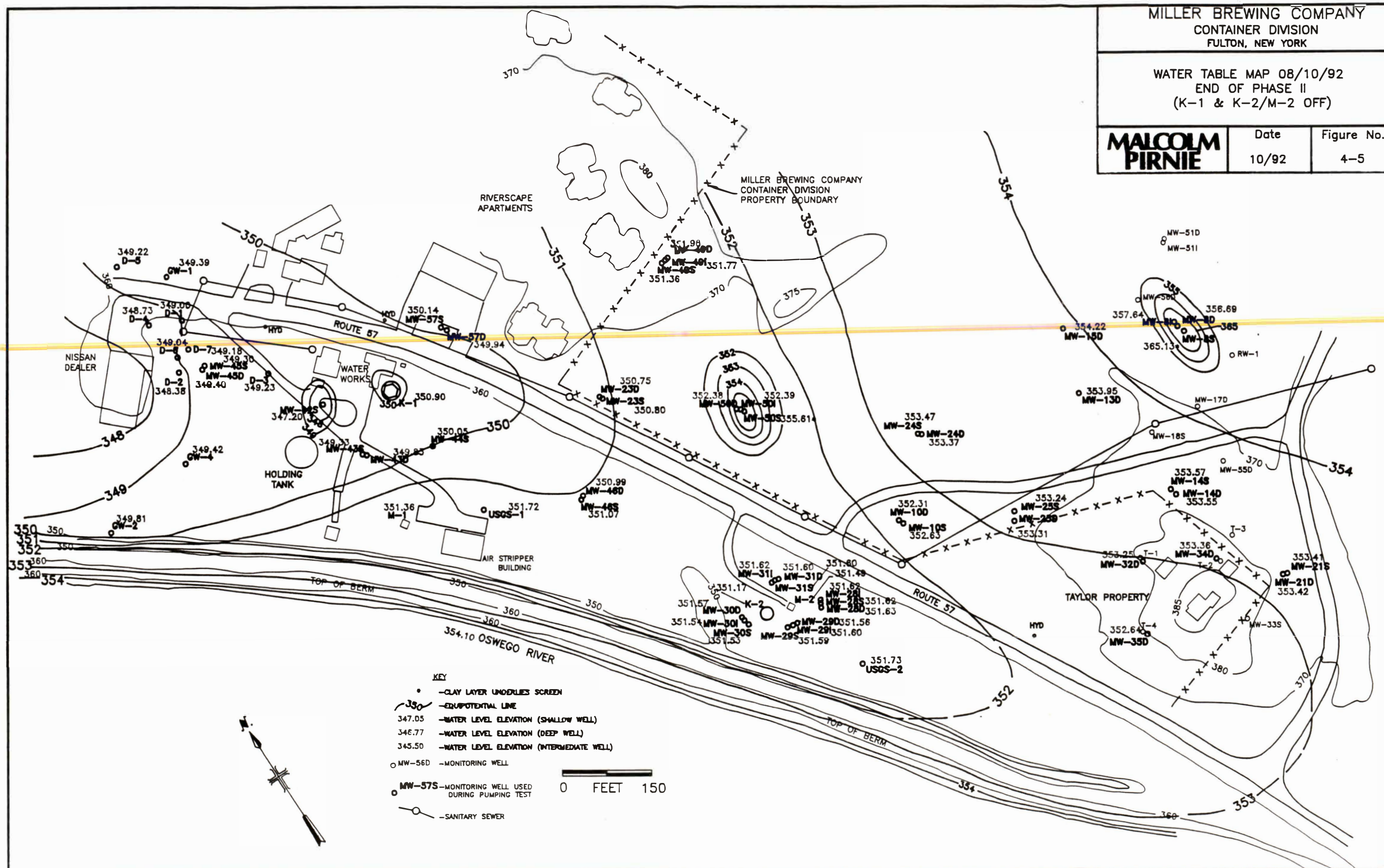
The shape of the cone of depression around K-2/M-2 is ellipsoidal rather than symmetrical. This indicates anisotropic geology with higher hydraulic conductivity in the direction of the major axis of the ellipsoid, which is parallel to the Oswego River. The elevated River is hydraulically connected to the permeable aquifer deposits and it serves as a constant source of recharge (a recharge boundary); therefore, the Oswego River affects the shape and extent of the cone of depression around the K-2/M-2 system. The River stops the expansion of the cone of depression and replaces flow which would normally be received from outside the boundary. This stabilizes the drawdown in the wells located between the pumping system and the River, and limits the removal of water from storage. Because the River is maintained at a relatively constant and artificially high elevation, the slope of the cone of depression is greater on the River's side of K-2/M-2. The slope of the cone of depression is also lessened on the opposite side of K-2/M-2 due to the availability of water from the River.



**MALCOLM  
PIRNIE**

Date  
10/92

|            |
|------------|
| Figure No. |
| 4-5        |





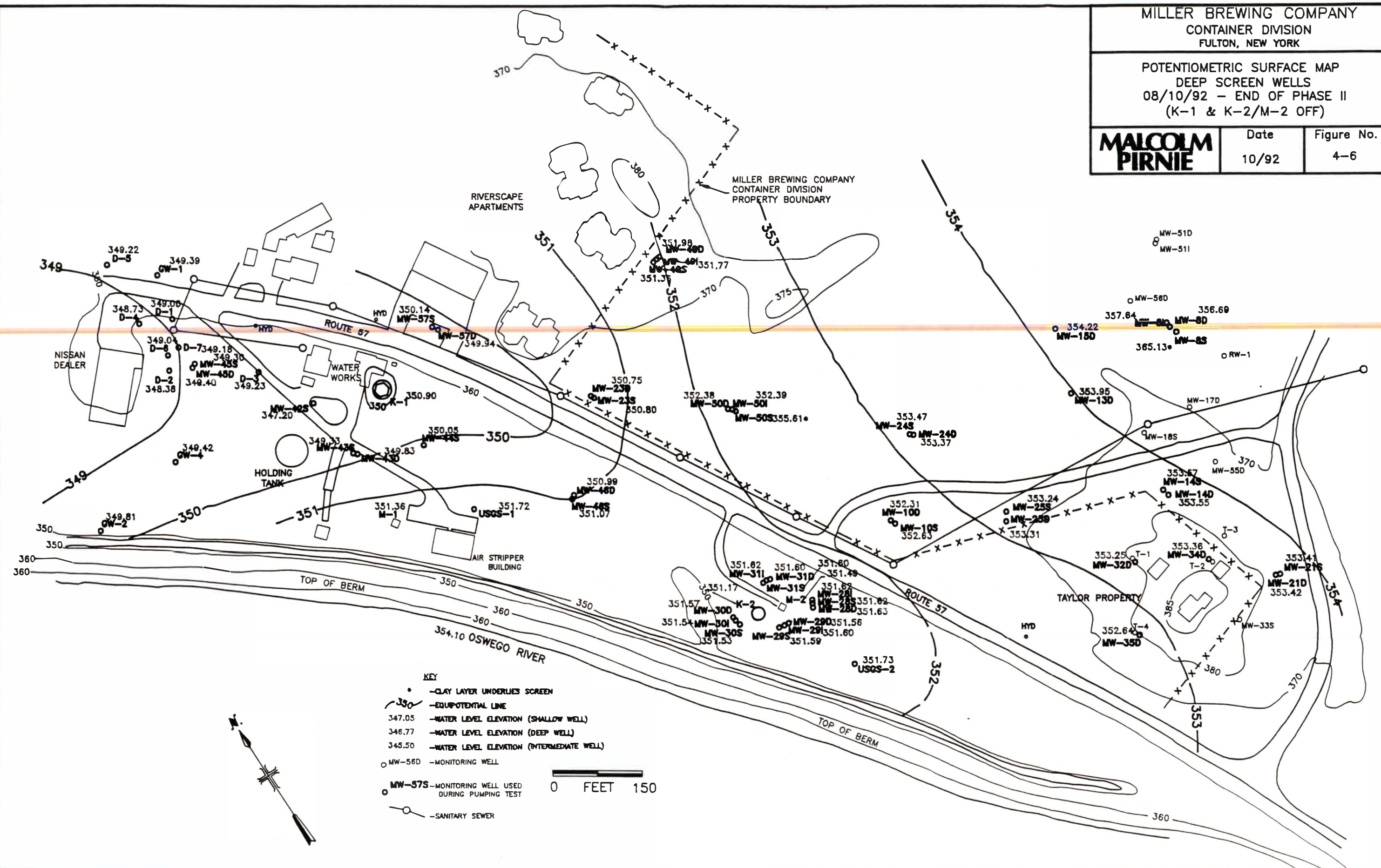
MILLER BREWING COMPANY  
CONTAINER DIVISION  
FULTON, NEW YORK

POTENTIOMETRIC SURFACE MAP  
DEEP SCREEN WELLS  
08/10/92 - END OF PHASE II  
(K-1 & K-2/M-2 OFF)

**MALCOLM  
PIRNIE**

Date  
10/92

Figure No.  
4-6



A flow net was constructed around K-2 and M-2 (and K-1) using water table data collected August 1, prior to the beginning of the pumping test (Figure 4-7). These data were selected because they represent relatively stabilized ground water conditions while the municipal wells were operating at typical flow rates. Based on the construction of this flow net, the ground water flow distribution around the municipal wells has been approximated.

In the K-1 area, over 60 percent of the shallow ground water entering K-1 originates at the Oswego River recharge boundary. In contrast, only about 10 percent of the water supplied to this well originates from the direction of the Miller Container property, southeast of K-1. About one-quarter of the shallow ground water entering K-1 is supplied from the east and northeast directions, while slightly less than five percent of the K-1 water is supplied from north and northwest of K-1.

K-2/M-2 are located nearer to the Oswego River than K-1. Consequently, these wells receive almost three-quarters (74 percent) of their shallow supply from the river. A total of approximately 25 percent of the water entering these wells originates from the northeast, east and southeast directions, which includes the flow from the Miller Container site. A small percentage of flow is contributed to K-2/M-2 (about one percent) from the north.

## **4.2 K-1 INFLUENCE**

---

The drawdown cone formed around K-1 is also ellipsoidal with the major axis of the ellipsoid essentially parallel to the River. Due to higher pumping rates at K-1 (vs K-2/M-2), the cone of depression is more laterally extensive around K-1, and according to the corrected drawdown data shown in Figure 4-8 and 4-9, extends into the K-2/M-2 area. After the water levels in the vicinity of K-2/M-2 had essentially stabilized, the pumping at K-1 was reestablished. Drawdown during the period from August 10 to August 19 was observed at all wells located within 300 feet of K-1, ranging from 0.52 foot at MW-42S to 5.63 feet at MW-43D, when corrected to the background wells. Also, water levels in K-2, M-2, USGS-2, and the twelve monitoring wells immediately surrounding K-2/M-2 rose an average (corrected) of 1.69 feet from August 6, when K-1 was turned off, to August 10, when K-1 was restarted. A drop in water levels averaging 0.85 feet was observed at these fifteen wells during the period from August 10 to August 19, when K-1 was operating but before the K-2/M-2 system was restarted.



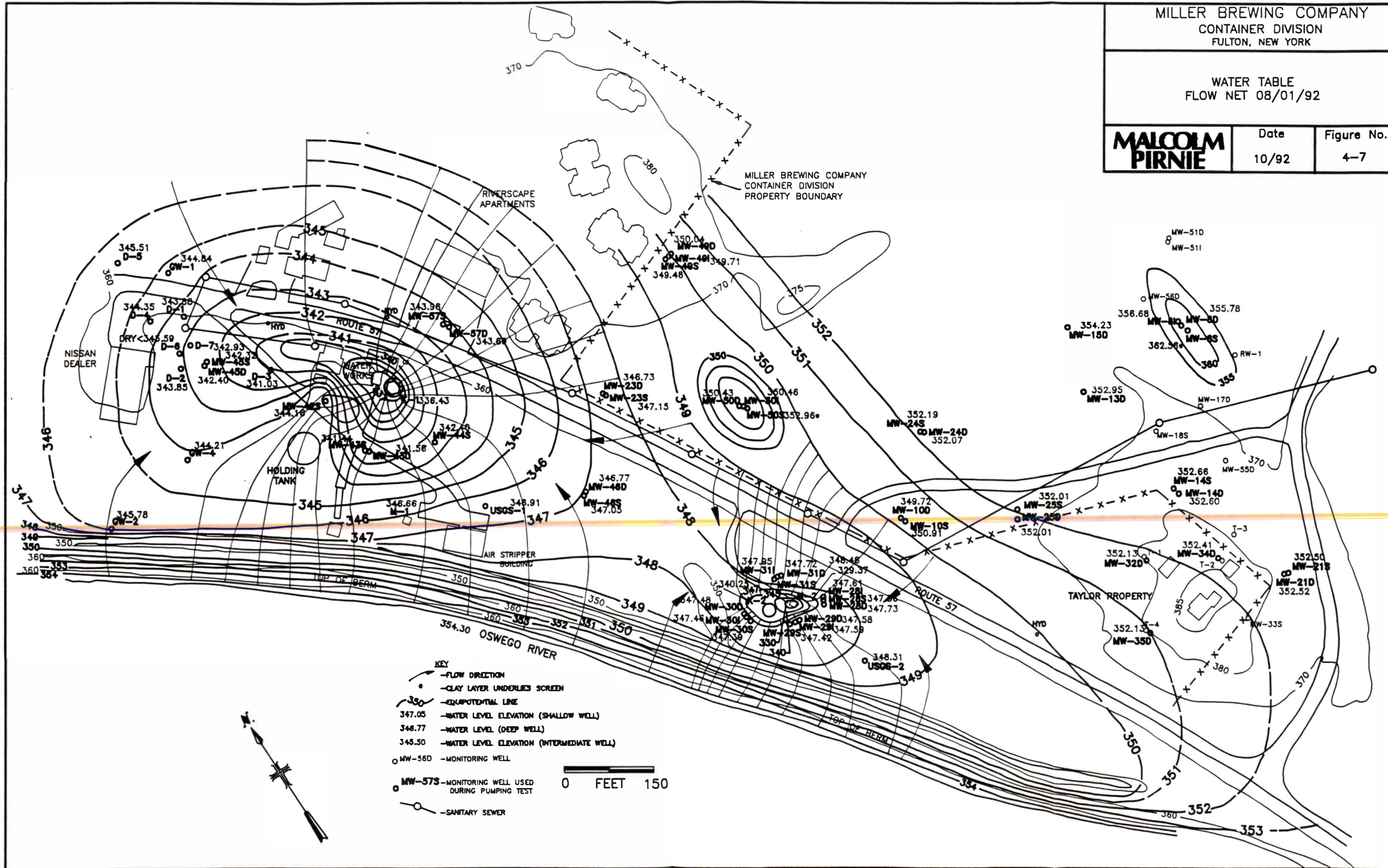
MILLER BREWING COMPANY  
CONTAINER DIVISION  
FULTON, NEW YORK

WATER TABLE  
FLOW NET 08/01/92

**MALCOLM  
PIRNIE**

Date  
10/92

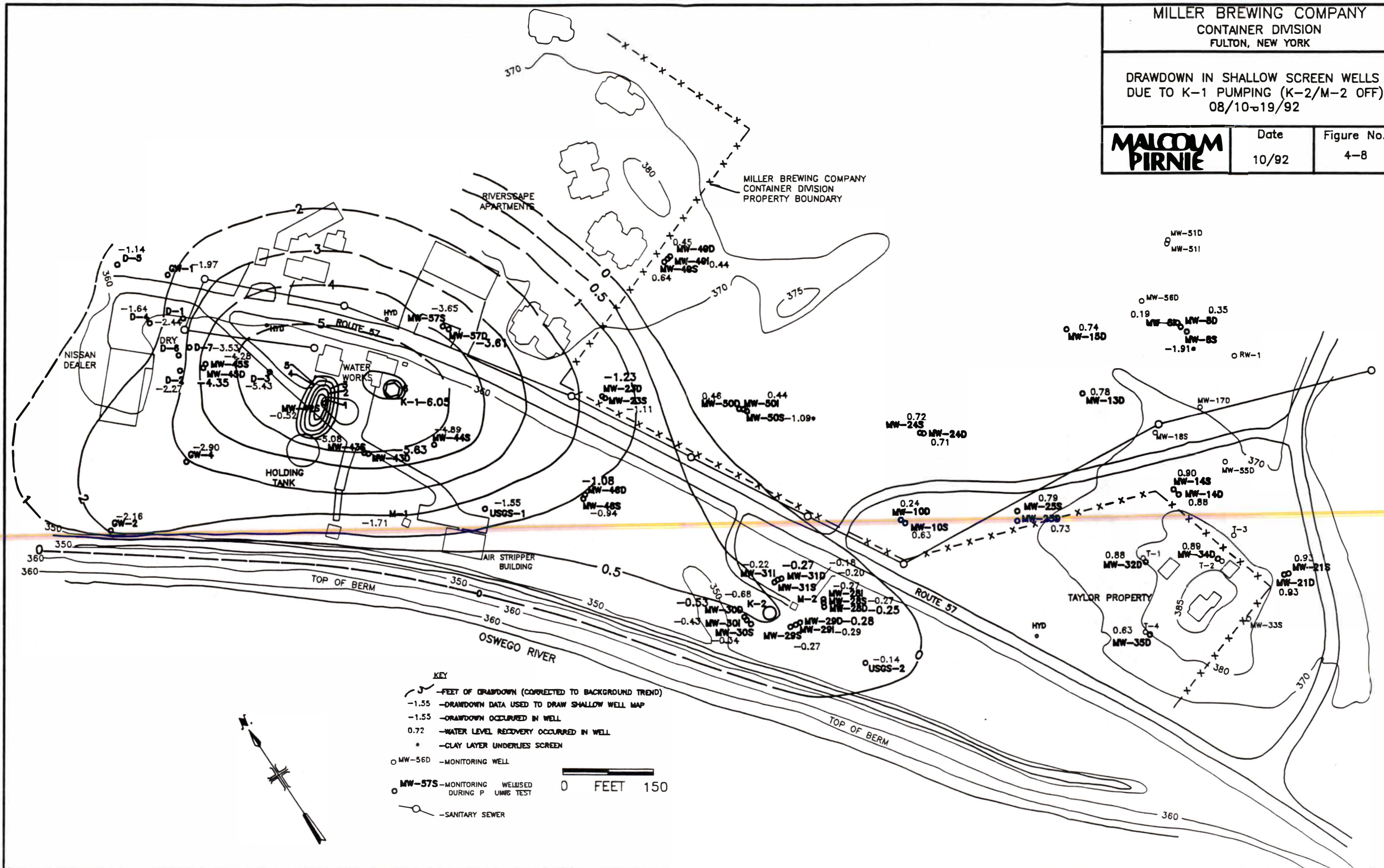
Figure No.  
4-7





DRAWDOWN IN SHALLOW SCREEN WELLS  
DUE TO K-1 PUMPING (K-2/M-2 OFF)  
08/10-19/92

|       |            |
|-------|------------|
| Date  | Figure No. |
| 10/92 | 4-8        |





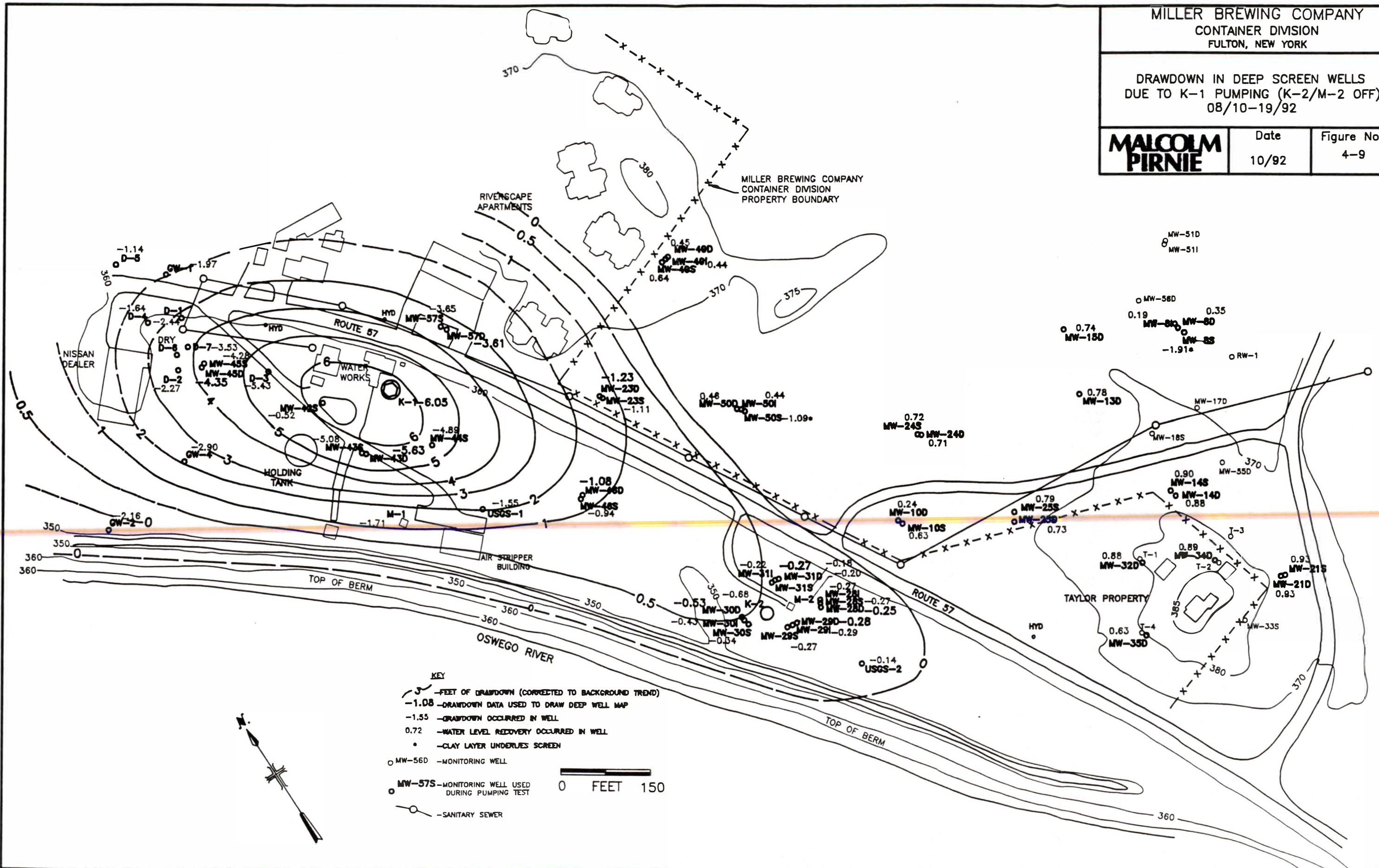
MILLER BREWING COMPANY  
CONTAINER DIVISION  
FULTON, NEW YORK

DRAWDOWN IN DEEP SCREEN WELLS  
DUE TO K-1 PUMPING (K-2/M-2 OFF)  
08/10-19/92

**MALCOLM  
PIRNIE**

Date  
10/92

Figure No.  
4-9



Drawdown was also observed at all monitoring wells recently installed by the NYSDEC (D-1 through D-7, except at well D-6 which was dry), and at Mirabito wells GW-1, GW-2, and GW-4 (older NYSDEC wells). (D-6 is described as extending to a depth of 13 feet below land surface; however, there is a blockage preventing the lowering of a water level probe below about 7.5 feet below land surface. Water levels could only be measured at D-6 when the water level had recovered to an elevation of greater than 345.29 feet above Mean Sea Level).

As shown on Figures 4-8 and 4-9, the drawdown from K-1 extended to wells MW-23S, D, but the effect of pumping K-1 during this period was not felt at MW-49S,I,D; MW-50S,I,D; MW-24S,D; MW-10S,D; and at wells located closer to the Miller Container Plant, including the wells on and near the Taylor property. Although drawdown is indicated at MW-50S and MW-8S, the changes in water level at these wells is independent of the pumping at K-1; a clay layer underlies the shallow screens in these wells creating exaggerated responses to rainfall events and seasonal trends.

The water level measurements recorded at MW-42S while the K-1 system was off (08/06-08/10/92), and when pumping was reestablished at K-1 (08/10-08/19/92), suggest that the area surrounding MW-42S is not affected as greatly as other areas around and at further distances from K-1 when the pumping regimen at K-1 is altered.

For example, during Phases II and IIIA (08/06-08/10/92), while K-1 was essentially off, the water level in MW-42S rose only 2.36 feet while the water levels rose 7.50 feet at D-3, 6.43 feet at MW-45S, 3.34 feet at M-1 and 2.64 feet at MW-46S. The corrected drawdown at MW-42S in response to the pumping at K-1 during Phases IIIB and IV (08/10-08/19/92) was only 0.52 foot while there was over five feet of (corrected) drawdown at MW-45S. One potential explanation for this condition is the existence of a supply of water to the MW-42S area from the 50-foot holding tank, the OCWA line, or some other source in the area. Trihalomethanes (THMs) are occasionally detected in samples collected from MW-42S. This information may help locate the source of this apparent supply of water. If a ground water mound occasionally occurs in this area as a consequence of the supply of water, then the mound may serve to alter normal shallow flow to K-1 from upgradient areas, such as from the MW-45S area.



The drawdown in both the K-2/M-2 area and the K-1 area would have been more significant during Phase IVB, had the City of Fulton not purged the fire hydrant system along Route 57. Three hydrants were opened on August 17, and allowed to discharge into the area at an unknown rate and for an unknown duration on this date. One hydrant is located at the west side of the Taylor property, near Route 57; two hydrants are located near the Water Works buildings and K-1 (See Figure 1-1). The discharge was significant enough to pond water in the area and result in significant recharge to the aquifer.

As opposed to the area around K-2/M-2, the relative pattern of vertical hydraulic flow between clustered wells around K-1 did not change during the time frame when the pumps in K-1 were off. There was an upward component of flow at the MW-43S,D and MW-45S,D clusters on August 1 and August 10, and the downward flow component commonly observed at MW-46S,D, MW-57S,D, and MW-23S,D during pumping at K-1 also did not change. This is perhaps indicative of the lack of stabilized ground water conditions in the aquifer around K-1 at the time the system was restarted. The potential for seepage into the Water Works building basement prevented allowing more time for stabilization to be achieved.

The average linear velocity ( $V_L$ ), or seepage velocity, has been estimated for several flow paths in both the shallow and deep ground water zones. The rate of ground water movement has been approximated for these flow paths under three different pumping regimes:

- Non-pumping conditions, with the K-1 and K-2/M-2 systems off. The data used for these estimates were collected August 10, 1992; water levels were considered to be relatively stabilized. Water table and potentiometric surface configurations are illustrated on Figures 4-5 and 4-6.
- K-1 only, pumping at a typical flow rate, with K-2/M-2 off. The data used represent ground water flow conditions shown on Figures 4-1 and 4-2.
- Pumping at both the K-1 and K-2/M-2 systems at typical flow rates, such as prior to the start of the pumping test. These shallow and deep zone flow configurations are shown on Figures 4-3 and 4-4.

The average linear velocity estimates are based on the horizontal hydraulic gradient ( $dh/dl$ ) between two wells, the average horizontal hydraulic conductivity ( $K_h$ ), and the estimated effective porosity ( $n_e$ ). The effective porosity was estimated previously (during the Interim Remedial Investigation Report, June 1991, preparation) at 0.22. Horizontal



hydraulic conductivity values at all wells installed by Miller Container were estimated during the remedial investigation and are presented in the Draft Remedial Investigation Report, April 1992. Average linear velocity is estimated by using the equation  $V_s = (K_h/n_e)(dh/dl)$ . Hydraulic conductivity could not be measured at some wells due to rapid recharge. In these cases, a value of  $5 \times 10^{-2}$  cm/sec is estimated, as this was the highest  $K_h$  value measured at the site.

The rate of ground water movement was estimated for three general flow directions: from the vicinity of K-2/M-2 toward K-1, from the Miller Container site property toward the K-1 area, and from the Miller Container site property toward K-2/M-2. Hydraulic conductivity and estimated average linear velocity values are presented in Tables 4-1 and 4-2, respectively.

The rate of ground water movement in all three flow directions described above is lowest under non-pumping conditions. Introducing ground water pumping at K-1 only significantly increases the seepage velocity for all flow paths within the influence of K-1. This increase is due to the increased gradient created by the drawdown surrounding K-1. As expected, little change in the rate of ground water movement is seen in outlying areas (e.g., MW-15D to MW-24D, MW-14D to MW-32D). Seepage velocity estimates for ground water movement from the K-2/M-2 area toward K-1 are highest when K-1 only is pumping.

With both pumping systems operating at typical discharge rates, the rate of ground water movement from the Miller Container site towards the municipal well field generally increases; however, the velocity estimates from the K-2/M-2 area toward K-1 significantly decrease. Areas outside the influence of the K-2/M-2 system (e.g., MW-49S,D to MW-57S,D and MW-50D to MW-23D) exhibit little change in seepage velocity estimates between K-1 only pumping and both systems pumping.

These seepage velocity estimates represent the rate at which ground water actually moves through pore spaces between grains in the saturated material under conditions created by pumping at K-1 only. The estimates do not, however, take into consideration factors that account for dispersion, a phenomenon that occurs because ground water flows through different pores at different rates and because various flow paths are of different lengths. Dispersion is especially important when considering finer-grained aquifer material, where the process of diffusion may be important in the movement of a solute from an area of greater to lesser concentration. Since these estimates do not include a dispersion factor,

**MILLER CONTAINER  
MUNICIPAL AQUIFER STUDY**

**TABLE 4-1**

**HYDRAULIC CONDUCTIVITIES**

(Source: Draft Remedial Investigation Report, April, 1992)

| Well   | Hydraulic Conductivity, K (cm/sec) |
|--------|------------------------------------|
| MW-10S | 9E-04                              |
| MW-10D | 4E-03                              |
| MW-13D | ****                               |
| MW-14D | 4E-03                              |
| MW-15D | ****                               |
| MW-23D | ****                               |
| MW-24D | 3E-02                              |
| MW-25D | 2E-02                              |
| MW-28S | 5E-03                              |
| MW-28D | ****                               |
| MW-29S | 2E-03                              |
| MW-30D | ****                               |
| MW-31D | ****                               |
| MW-32D | 5E-03                              |
| MW-44S | 2E-03                              |
| MW-46S | 1E-04                              |
| MW-46D | 5E-04                              |
| MW-49S | 7E-04                              |
| MW-49D | ****                               |
| MW-50D | 9E-05                              |
| MW-57S | 1E-04                              |
| MW-57D | 5E-05                              |

F:\PROJ\102815\NP-TST\TAB4-1.WK1

Notes: \*\*\*\* Recharge too rapid for quantitation; estimated at 5E-02 cm/sec for purposes of average linear velocity estimates.

**MILLER CONTAINER  
MUNICIPAL AQUIFER STUDY**

**TABLE 4-2  
AVERAGE LINEAR VELOCITY ESTIMATES**

| Flow<br>Direction       | Average Linear Velocity (feet/year) |                                    |                           |                                  |
|-------------------------|-------------------------------------|------------------------------------|---------------------------|----------------------------------|
|                         | Non-Pumping Conditions              |                                    | K-1 Only ON               | Both Systems Pumping             |
|                         | Path                                | (K-1 OFF, K-2/M-2 OFF)<br>08/10/92 | (K-2/M-2 OFF)<br>08/06/92 | (K-1 ON, K-2/M-2 ON)<br>08/01/92 |
| K-2/M-2<br>to<br>K-1    | MW-30D to MW-46D                    | 212*                               | 553*                      | 259*                             |
|                         | MW-31D to MW-46D                    | 200*                               | 564*                      | 318*                             |
|                         | MW-28S to MW-46S                    | 16                                 | 43                        | 15                               |
|                         | MW-29S to MW-46S                    | 6                                  | 19                        | 4                                |
|                         | MW-46S to MW-44S                    | 18                                 | 104                       | 84                               |
| Miller<br>to<br>K-1     | MW-49D to MW-57D                    | 623*                               | 1924*                     | 1940*                            |
|                         | MW-50D to MW-23D                    | 847*                               | 1893*                     | 1929*                            |
|                         | MW-49S to MW-57S                    | 6                                  | 28                        | 27                               |
| Miller<br>to<br>K-2/M-2 | MW-15D to MW-24D                    | 546*                               | 640*                      | 1392*                            |
|                         | MW-13D to MW-10D                    | 572*                               | 813*                      | 1130*                            |
|                         | MW-14D to MW-32D                    | 51                                 | 55                        | 80                               |
|                         | MW-25D to MW-28D                    | 790*                               | 1301*                     | 2025*                            |
|                         | MW-24D to MW-31D                    | 978*                               | 1656*                     | 2465*                            |
|                         | MW-10S to MW-28S                    | 76                                 | 151                       | 253                              |
|                         | MW-10S to MW-29S                    | 29                                 | 57                        | 97                               |

P:\PROJ\1028151\P-TST\TAB4-2.WK1

Notes: \* Estimated hydraulic conductivity value of 5E-02 cm/sec used for one of the wells within the calculation.

they should not be used to predict the average linear rate of movement of a solute front, but only as an indication of the rate of ground water movement from one area to another.

### **4.3 K-1 AND K-2/M-2 COMBINED INFLUENCE**

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Pumping conditions were reestablished at K-2/M-2 on August 19 beginning Phase V of the pumping test. Since drawdown around K-1 was still occurring and the wells around K-2/M-2 are known to be affected by K-1, the drawdown observed around K-2/M-2 during the period from August 19 through August 22 (the culmination of the pumping test) is the combined result of pumping at all three wells. Since the stabilization process of the aquifer was interrupted near the end of Phase IVB by the fire hydrant purging, MPI decided to delay the restart of the K-2/M-2 system by two days, in an attempt to achieve stabilized water levels under maximum pumping conditions at K-1. Unfortunately, stabilized conditions were not reached, and scheduling and equipment constraints made further delays impractical. The K-2/M-2 system was restarted before water levels had completely stabilized, and the duration of Phase V was shorter than anticipated.

The drawdown in the shallow and deep wells between the period August 10 to August 22, which incorporates the Phase V data, is shown on Figures 4-10 and 4-11. Drawdown due to the pumping during Phase V was not observed at the wells on the Taylor property or upgradient at well clusters MW-14S,D and MW-21S,D. There was also no impact at MW-24S,D, MW-25S,D and MW-10S. Drawdown was observed at MW-10D and at MW-50I,D, although the drawdown at MW-50I,D was very small and may be a result of pumping at K-1, or other factors.

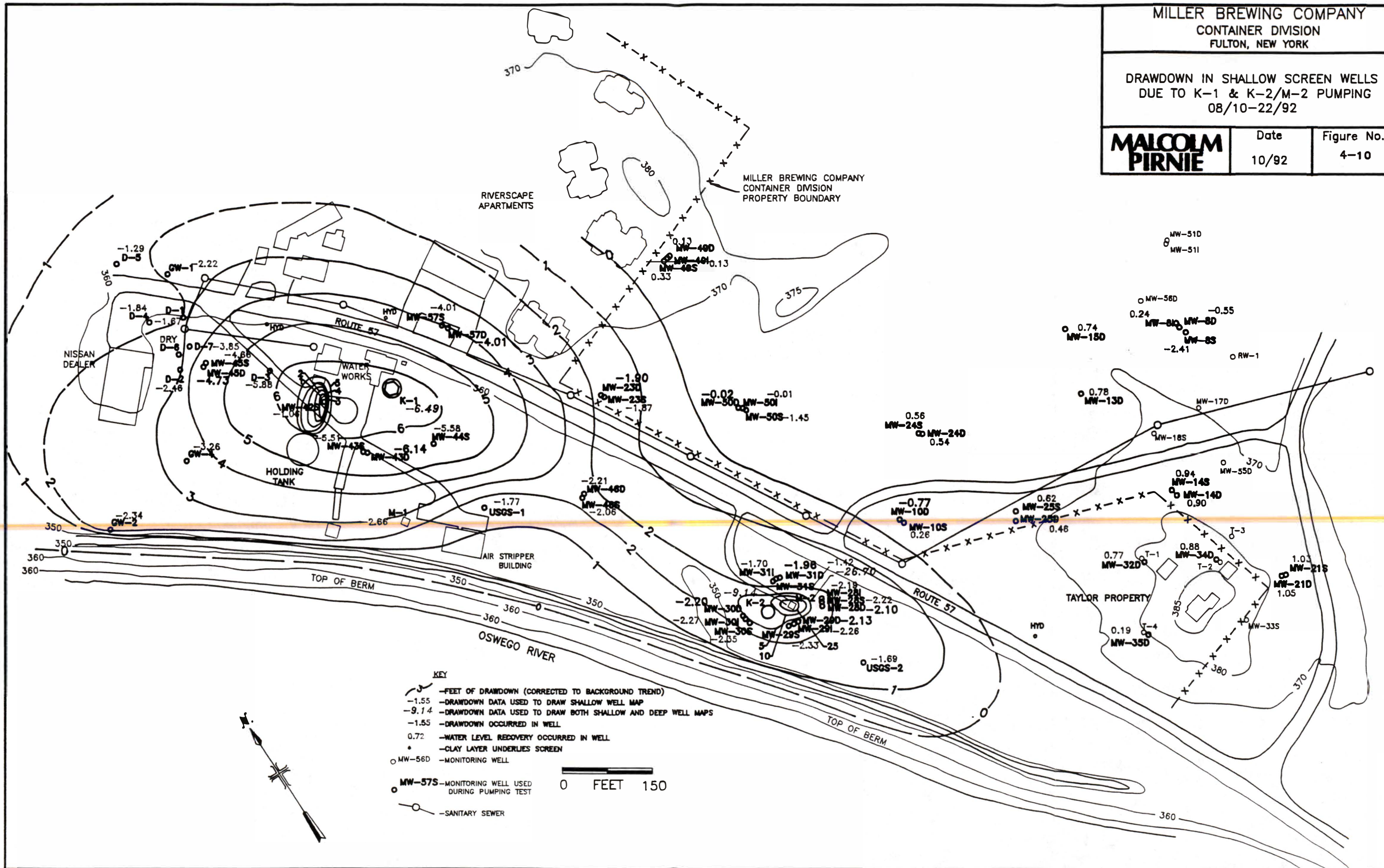


DRAWDOWN IN SHALLOW SCREEN WELLS  
DUE TO K-1 & K-2/M-2 PUMPING  
08/10-22/92

# MALCOLM PIRNIC

Date  
10/92

Figure No.  
4-10





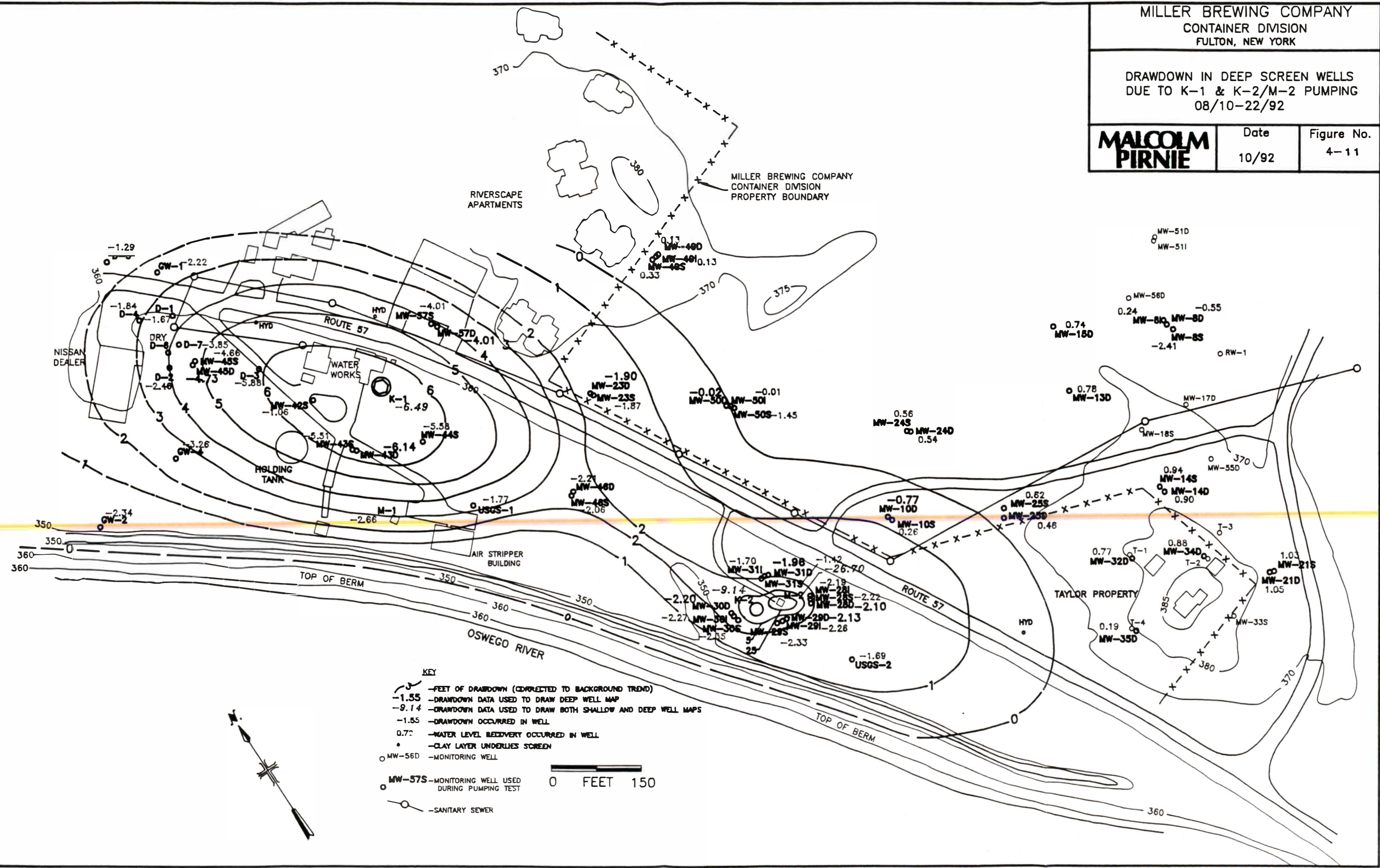
MILLER BREWING COMPANY  
CONTAINER DIVISION  
FULTON, NEW YORK

DRAWDOWN IN DEEP SCREEN WELLS  
DUE TO K-1 & K-2/M-2 PUMPING  
08/10-22/92

**MALCOLM  
PIRNE**

Date  
10/92

Figure No.  
4-11





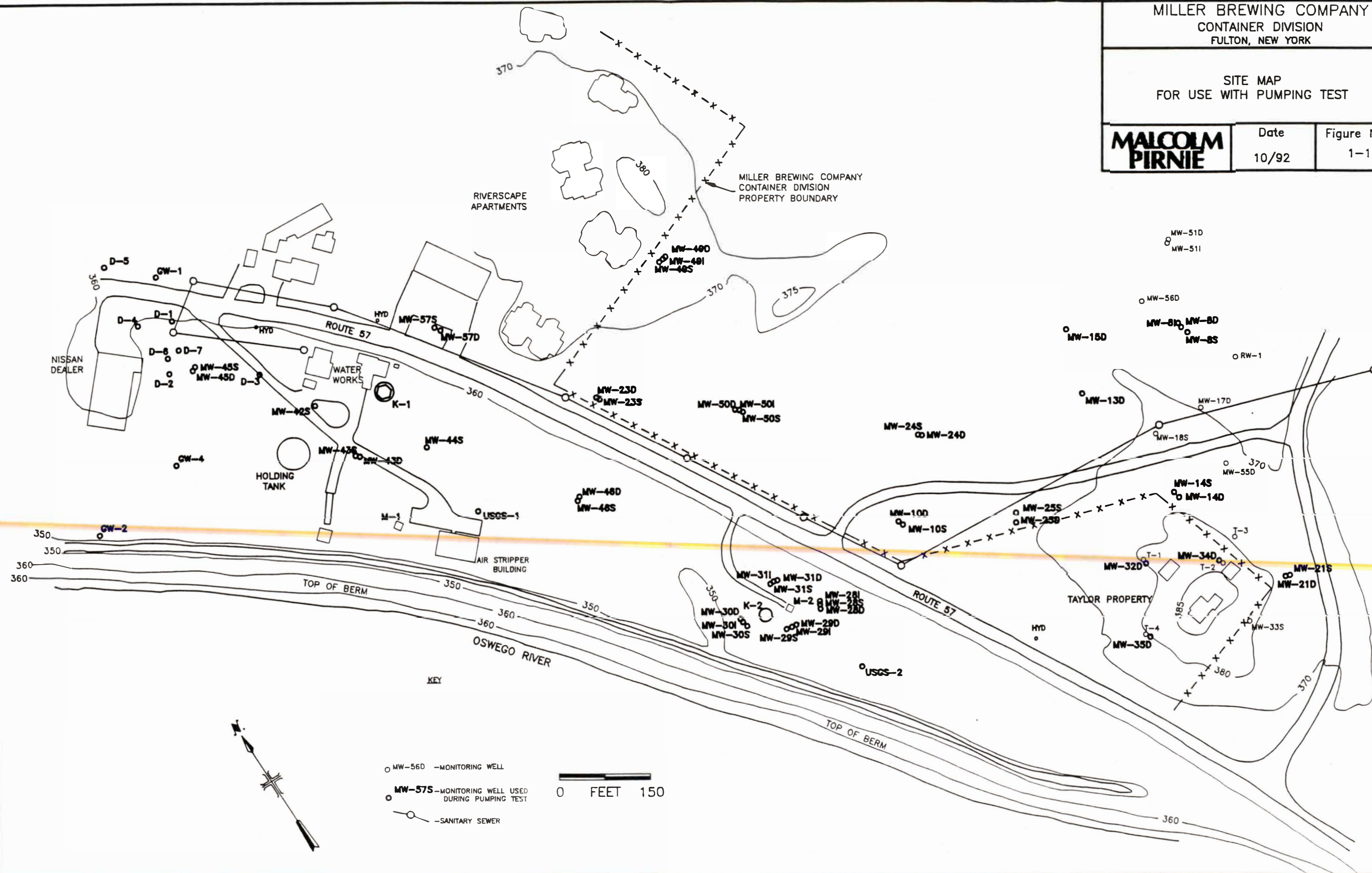
MILLER BREWING COMPANY  
CONTAINER DIVISION  
FULTON, NEW YORK

SITE MAP  
FOR USE WITH PUMPING TEST

**MALCOLM  
PIRNIE**

Date  
10/92

Figure No.  
1-1



property. These wells include Municipal Wells No. 1 and No. 2 and Kellar Wells No. 1 and No. 2, designated as M-1, M-2, K-1 and K-2 (respectively) in this report. The locations of these wells are shown on Figure 1-1. Additional facilities at the Water Works include:

- A holding tank which serves as the wet well for distribution system pumps. The capacity of the tank is approximately 350,000 gallons.
- Chlorination facilities. (All City source water is piped to the holding tank where it is chlorinated prior to distribution.)
- A pump station containing three pumps which pump water to the distribution system.
- A permanent treatment facility which includes a raw water feed tank; three transfer pumps; an air stripping unit; two granular activated carbon (GAC) air treatment units; and a control room which houses the electrical circuitry and system control panels.

K-2 and M-2 were taken off-line as drinking water supply wells during March and April 1990, respectively, due to the presence of volatile organic compounds (VOCs) detected in the wells in excess of NYSDOH drinking water standards. K-1 was taken off-line due to the occurrence of low-level VOC contamination in August 1991; M-1 was taken off-line in July 1986 due to Fe, Mn and H<sub>2</sub>S exceedances. In accordance with Order on Consent Index #A702659106, and during construction of the permanent treatment system, water from K-2 and M-2 was pumped through a temporary GAC treatment system and discharged to the river; water from K-1 was pumped directly to the river. A temporary GAC treatment system to treat K-1 water prior to discharge to the river was on standby but was never used. Following completion of the permanent treatment facility and a demonstration period which concluded on June 24, 1992, water from K-1, K-2 and M-2 has been pumped to the treatment system and back into the municipal drinking water supply.

A Remedial Investigation/Feasibility Study (RI/FS) has been initiated by Miller and is being conducted by Malcolm Pirnie, Inc. (MPI) in accordance with Order on Consent Index #A7-0227-90-04. Under Section VIII of the Amendment, to Order on Consent Index #A701118704, Miller Brewing Company, Container Division, is required to:

- Determine the location, depths, yields, and pumping regimens for all wells located on the grounds of the Water Works property.
- Locate and determine the depth of all test wells and piezometers on the Water Works property.