

# ATTACHMENT 1 Pump Coordinator Roles and Responsibilities

Date / Time

EVENT LOG BOOK

Page 1 of

8/31/18:00 we did a prejob brief. we took the boat & motor  
1 from the North station to Land U. We monitored  
1 the website.

9/1/00:15 The website is showing 9/30 insted of 9/1.  
1 I notified sfwmp of the problem. I let him  
1 know we're at 477 ac.ft., I'm awaiting a  
1 call back from Omar.

9/1/01:00 Spoke with sfwmp Omar. He informed me the  
1 gates are closed which I verified with the  
1 other website. I explained I will need  
1 readings emailed if the web isn't back in  
1 service, I will document when the gates  
1 open & return a call to him.

9/1/02:05 Omar with sfwmp called and said IT repaired  
1 the website.

9/1/02:37 Total discharge reached 507 Ac.ft.

9/1/02:38 started North station Pumps

9/1/02:43 started South station Pumps

9/1/02:45 I notified Ray Moore of pump start up.

9/1/03:00 I instructed Kyle to raise the HZ from 54 to 55

9/1/03:00 North Station Pumped 1,365,458 gal.

9/1/03:00 South station Pumped 1,023,378 gal.

9/1/04:00 North station pumped 3,779,801 gal.

9/1/04:00 South station pumped 3,767,732 gal.

9/1/05:00 North Station pumped 3,782,220 gal.

9/1/05:00 South Station pumped 3,774,510 gal.

9/1/06:00 North station pumped 3,775,680 gal.

9/1/06:00 South station pumped 3,769,505 gal.

9/1/06:19 Subtotal North Station Pumped 12,703,159 gal

9/1/06:19 Subtotal South Station Pumped 12,335,125 gal

9/1/07:00 South Station Pumped 3,778,830 gal

9/1/07:00 North Station Pumped 3,784,530 gal

9/1/08:00 North Station Pumped 3,794,910 gal

9/1/08:00 South Station Pumped 3,771,540 gal

9/1/09:00 South station Pumped 3,782,010 gal

9/1/09:00 North station Pumped 3,797,910 gal

# ATTACHMENT 1 Pump Coordinator Roles and Responsibilities

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EVENT LOG BOOK

Page 1 of

|            |                               |                |
|------------|-------------------------------|----------------|
| 9/1 / 0900 | Subtotal North Station Pumped | 24,080,509 gal |
| 9/1 / 0900 | Subtotal South Station Pumped | 23,667,505 gal |
| 9/1 / 1000 | North Station Pumped          | 3,777,625      |
| 9/1 / 1000 | South Station Pumped          | 3,787,500      |
| 9/1 / 1100 | South Station Pumped          | 3,810,870      |
| 9/1 / 1100 | North Station Pumped          | 3,762,403      |
| 9/1 / 1200 | North station pumped          | 3,510,752      |
| 9/1 / 1200 | South Station pumped          | 3,169,456      |

|            |                            |                 |
|------------|----------------------------|-----------------|
| 9/1 / 1200 | Total North station Pumped | 35,131,289 gals |
| 9/1 / 1200 | Total South Station Pumped | 34,435,325 gals |

|                                          |  |
|------------------------------------------|--|
| 9 Hrs Total Pumped into CCS              |  |
| 34,435,325 Total gallons pumped into CCS |  |
| 3,826,147 Avg GPH                        |  |
| 63,769 Avg GPM                           |  |

Bryan Ingram  
9/1/15

Rev 5, 8/21/15

ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET |                         |                           |                         |                                         |                                         |                      |
|----------------------------------------|-------------------------|---------------------------|-------------------------|-----------------------------------------|-----------------------------------------|----------------------|
| Time                                   | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal<br>Level<br>North of 344 St | South Canal<br>Level<br>South of 344 St | System<br>Checks Sat |
| 00:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 00:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 1:00                                   | Flow:                   | Flow:                     | Flow:                   | .80                                     | .70                                     |                      |
| 1:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 2:00<br>0238                           | Flow:<br>20638          | Flow:<br>ERROR            | Flow:<br>21311          | .80                                     | .70                                     | ✓                    |
| 2:00                                   | Total:<br>1181335       | Total:<br>ERROR           | Total:<br>4740241       |                                         |                                         |                      |
| 3:00                                   | Flow:<br>20608          | Flow:<br>ERROR            | Flow:<br>20956          | .75                                     | .70                                     | ✓                    |
| 3:00                                   | Total:<br>1569104       | Total:<br>ERROR           | Total:<br>5149330       |                                         |                                         |                      |
| 4:00                                   | Flow:<br>21455          | Flow:<br>ERROR            | Flow:<br>20524          | .35                                     | .70                                     | ✓                    |
| 4:00                                   | Total:<br>2822358       | Total:<br>ERROR           | Total:<br>6397877       |                                         |                                         |                      |
| 5:00                                   | Flow:<br>20753          | Flow:<br>ERROR            | Flow:<br>20742          | .50                                     | .70                                     | ✓                    |
| 5:00                                   | Total:<br>4201676       | Total:<br>ERROR           | Total:<br>7648523       |                                         |                                         |                      |
| 6:00                                   | Flow:<br>20933          | Flow:<br>ERROR            | Flow:<br>20828          | .55                                     | .7                                      | ✓                    |
| 6:00                                   | Total:<br>5408645       | Total:<br>ERROR           | Total:<br>8828914       |                                         |                                         |                      |
| 7:00                                   | Flow:<br>20971          | Flow:<br>ERROR            | Flow:<br>20819          | .6                                      | .7                                      | ✓                    |
| 7:00                                   | Total:<br>6743830       | Total:<br>ERROR           | Total:<br>10099195      |                                         |                                         |                      |
| 8:00                                   | Flow:<br>21302          | Flow:<br>ERROR            | Flow:<br>20805          | .65                                     | .7                                      | ✓                    |
| 8:00                                   | Total:<br>8093338       | Total:<br>ERROR           | Total:<br>1135241       |                                         |                                         |                      |
| 9:00                                   | Flow:<br>20961          | Flow:<br>ERROR            | Flow:<br>20929          | .7                                      | .7                                      | ✓                    |
| 9:00                                   | Total:<br>9424067       | Total:<br>ERROR           | Total:<br>12534227      |                                         |                                         |                      |
| 10:00                                  | Flow:<br>20523          | Flow:<br>ERROR            | Flow:<br>20742          | .7                                      | .7                                      | ✓                    |
| 10:00                                  | Total:<br>10644451      | Total:<br>ERROR           | Total:<br>13813468      |                                         |                                         |                      |
| 11:00                                  | Flow:<br>20513          | Flow:<br>ERROR            | Flow:<br>20906          | .7                                      | .7                                      | ✓                    |
| 11:00                                  | Total:<br>11873328      | Total:<br>ERROR           | Total:<br>15068994      |                                         |                                         |                      |
| 12:00<br>11:55                         | Flow:<br>21048          | Flow:                     | Flow:<br>21106          | .7                                      | .7                                      | ✓                    |
| 12:00                                  | Total:<br>13042465      | Total:                    | Total:<br>16239109      |                                         |                                         |                      |

PUMP OPERATOR

Date

9-1-15

VERIFIED BY PUMP  
COORDINATOR

9/1/15

Andren Cooper

Date:

## ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET |                         |                           |                         |                                      |                                      |                      |
|----------------------------------------|-------------------------|---------------------------|-------------------------|--------------------------------------|--------------------------------------|----------------------|
|                                        |                         |                           |                         | Month                                | Day                                  | Year                 |
|                                        |                         |                           |                         | 8                                    | 31                                   | 15                   |
| Time                                   | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal Level<br>North of 344 St | South Canal Level<br>South of 344 St | System Checks<br>Sat |
| 13:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 13:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 14:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 14:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 15:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 15:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 16:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 16:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 17:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 17:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 18:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 18:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 19:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 19:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 20:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 20:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 21:00                                  | Flow:                   | Flow:                     | Flow:                   | .60                                  | .70                                  |                      |
| 21:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 22:00                                  | Flow:                   | Flow:                     | Flow:                   | .70                                  | .70                                  |                      |
| 22:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 23:00                                  | Flow:                   | Flow:                     | Flow:                   | .75                                  | .70                                  |                      |
| 23:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 24:00                                  | Flow:                   | Flow:                     | Flow:                   | .80                                  | .70                                  |                      |
| 24:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |

PUMP  
OPERATOR

Date

Cooper  
8-31-15

VERIFIED BY PUMP

COORDINATOR

Date:

Anderson Cooper  
9/1/15

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET |                        |                        |  |  | Month             | Day                  | Year |
|-------------------------------------|------------------------|------------------------|--|--|-------------------|----------------------|------|
| Time                                | North Pump<br>(107944) | South Pump<br>(107939) |  |  | South Canal Level | System<br>Checks Sat |      |
| 00:00                               | Flow:                  | Flow:                  |  |  |                   |                      |      |
| 00:00                               | Total:                 | Total:                 |  |  |                   |                      |      |
| 1:00                                | Flow:                  | Flow:                  |  |  |                   |                      |      |
| 100                                 | Total:                 | Total:                 |  |  |                   |                      |      |
| 2:00                                | Flow:                  | Flow:                  |  |  |                   |                      |      |
| 2:43                                | 30249                  | 30091                  |  |  | 0.60              | ✓                    |      |
| 2:00                                | Total:                 | Total:                 |  |  |                   |                      |      |
| 2:43                                | 47160749               | 58070409               |  |  | 0.60              | ✓                    |      |
| 3:00                                | Flow:                  | Flow:                  |  |  |                   |                      |      |
|                                     | 30866                  | 30868                  |  |  | 0.60              | ✓                    |      |
| 3:00                                | Total:                 | Total:                 |  |  |                   |                      |      |
|                                     | 47578841               | 58433136               |  |  | 0.60              | ✓                    |      |
| 4:00                                | Flow:                  | Flow:                  |  |  |                   |                      |      |
|                                     | 31487                  | 31287                  |  |  | 0.60              | ✓                    |      |
| 4:00                                | Total:                 | Total:                 |  |  |                   |                      |      |
|                                     | 49451938               | 60327751               |  |  | 0.60              | ✓                    |      |
| 5:00                                | Flow:                  | Flow:                  |  |  |                   |                      |      |
|                                     | 31740                  | 31253                  |  |  | 0.60              | ✓                    |      |
| 5:00                                | Total:                 | Total:                 |  |  |                   |                      |      |
|                                     | 51374758               | 62202379               |  |  | 0.60              | ✓                    |      |
| 6:00                                | Flow:                  | Flow:                  |  |  |                   |                      |      |
|                                     | 32031                  | 31156                  |  |  | 0.60              | ✓                    |      |
| 6:00                                | Total:                 | Total:                 |  |  |                   |                      |      |
|                                     | 53277670               | 64068972               |  |  | 0.60              | ✓                    |      |
| 7:00                                | Flow:                  | Flow:                  |  |  |                   |                      |      |
|                                     | 31629                  | 31017                  |  |  | .6                | ✓                    |      |
| 7:00                                | Total:                 | Total:                 |  |  |                   |                      |      |
|                                     | 55140243               | 654633156              |  |  |                   | ✓                    |      |
| 8:00                                | Flow:                  | Flow:                  |  |  |                   |                      |      |
|                                     | 31920                  | 30952                  |  |  | .6                | ✓                    |      |
| 8:00                                | Total:                 | Total:                 |  |  |                   |                      |      |
|                                     | 57094004               | 67739440               |  |  |                   | ✓                    |      |
| 9:00                                | Flow:                  | Flow:                  |  |  |                   |                      |      |
|                                     | 32350                  | 30845                  |  |  | .6                | ✓                    |      |
| 9:00                                | Total:                 | Total:                 |  |  |                   |                      |      |
|                                     | 56993547               | 695915660              |  |  |                   | ✓                    |      |
| 10:00                               | Flow:                  | Flow:                  |  |  |                   |                      |      |
|                                     | 32628                  | 713916892              |  |  | .6                | ✓                    |      |
| 10:00                               | Total:                 | Total:                 |  |  |                   |                      |      |
|                                     | 609164118              | 30427                  |  |  |                   | ✓                    |      |
| 11:00                               | Flow:                  | Flow:                  |  |  |                   |                      |      |
|                                     | 32498                  | 31476                  |  |  | .6                | ✓                    |      |
| 11:00                               | Total:                 | Total:                 |  |  |                   |                      |      |
|                                     | 62863709               | 73130599               |  |  |                   | ✓                    |      |

PUMP OPERATOR

Kyle Carr/ELSCA

Date 09/01/15

VERIFIED BY PUMP

COORDINATOR

Andren Cooper

Date:

9/1/15

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET |                        |                        | Month | Day               | Year                 |
|-------------------------------------|------------------------|------------------------|-------|-------------------|----------------------|
| Time                                | North Pump<br>(107944) | South Pump<br>(107939) |       | South Canal Level | System<br>Checks Sat |
| 12:00                               | Flow: <u>ERROR</u>     | Flow: <u>31624</u>     |       | <u>.6</u>         |                      |
| 12:00                               | Total: <u>0010</u>     | Total: <u>7439267</u>  |       | <u>.63</u>        |                      |
| 13:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 13:00                               | Total:                 | Total:                 |       |                   |                      |
| 14:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 14:00                               | Total:                 | Total:                 |       |                   |                      |
| 15:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 15:00                               | Total:                 | Total:                 |       |                   |                      |
| 16:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 16:00                               | Total:                 | Total:                 |       |                   |                      |
| 17:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 17:00                               | Total:                 | Total:                 |       |                   |                      |
| 18:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 18:00                               | Total:                 | Total:                 |       |                   |                      |
| 19:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 19:00                               | Total:                 | Total:                 |       |                   |                      |
| 20:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 20:00                               | Total:                 | Total:                 |       |                   |                      |
| 21:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 21:00                               | Total:                 | Total:                 |       |                   |                      |
| 22:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 22:00                               | Total:                 | Total:                 |       |                   |                      |
| 23:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 23:00                               | Total:                 | Total:                 |       |                   |                      |
| 24:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 24:00                               | Total:                 | Total:                 |       |                   |                      |

PUMP OPERATOR

ERIC CASH

Date

9/1/15

VERIFIED BY PUMP

COORDINATOR

A. Cefer

Date:

9/1/15

# INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Alan Sweeney Date: 8/7/15

Approved: R. P. [Signature] Date: 8/8/15

North Pump Station

9/1 - 9/2

04:06 - NOON

24,739,780 Total pumpal

Debbie Cooper  
Pixie Ingram

Bryan Ingram  
Rev 5/8/15

# ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET |                         |                           |                         |                                         |                                         |                                                                  | Month | Day | Year | 15 |
|----------------------------------------|-------------------------|---------------------------|-------------------------|-----------------------------------------|-----------------------------------------|------------------------------------------------------------------|-------|-----|------|----|
| Time                                   | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal<br>Level<br>North of 344 St | South Canal<br>Level<br>South of 344 St | System<br>Checks Sat                                             |       |     |      |    |
| 00:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                                                                  |       |     |      |    |
| 00:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 1:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                                                                  |       |     |      |    |
| 1:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 2:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                                                                  |       |     |      |    |
| 2:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 3:00                                   | Flow:                   | Flow:                     | Flow:                   | .75                                     | .65                                     |                                                                  |       |     |      |    |
| 3:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 4:00                                   | Flow:                   | Flow:                     | Flow:                   | .75                                     | .65                                     | See event log<br>0430-1677438 center-20082<br>west-20399 8585638 |       |     |      |    |
| 0400                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 4:00                                   | Total:                  | 8255432                   | 16427319                |                                         |                                         |                                                                  |       |     |      |    |
| 5:00                                   | Flow:                   | Flow:                     | Flow:                   | .50                                     | .70                                     | ✓                                                                |       |     |      |    |
| 5:00                                   | Total:                  | 9190098                   | 17388084                |                                         |                                         |                                                                  |       |     |      |    |
| 6:00                                   | Flow:                   | Flow:                     | Flow:                   | .4                                      | .70                                     | ✓                                                                |       |     |      |    |
| 6:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 7:00                                   | Flow:                   | Flow:                     | Flow:                   | .55                                     | .7                                      | ✓                                                                |       |     |      |    |
| 7:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 8:00                                   | Flow:                   | Flow:                     | Flow:                   | .6                                      | .7                                      | ✓                                                                |       |     |      |    |
| 8:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 9:00                                   | Flow:                   | Flow:                     | Flow:                   | .6                                      | .7                                      | ✓                                                                |       |     |      |    |
| 9:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 10:00                                  | Flow:                   | Flow:                     | Flow:                   | .65                                     | .7                                      | ✓                                                                |       |     |      |    |
| 10:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 11:00                                  | Flow:                   | Flow:                     | Flow:                   | .65                                     | .7                                      | ✓                                                                |       |     |      |    |
| 11:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 12:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                                                                  |       |     |      |    |
| 12:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |
| 11:55                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                                                                  |       |     |      |    |
| 11:55                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                                                                  |       |     |      |    |

B2

# INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Nan Sweeney Date: 8/7/15

Approved: A. P. [Signature] Date: 8/8/15

South Pump Station

9/1 - 9/2

04:11 - NOON

24,735,037 total pumped into  
CCS

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET          |                         |                         |  |                   |                      |
|----------------------------------------------|-------------------------|-------------------------|--|-------------------|----------------------|
| Month <u>9</u> Day <u>2</u> Year <u>2015</u> |                         |                         |  |                   |                      |
| Time                                         | North Pump<br>(107944)  | South Pump<br>(107939)  |  | South Canal Level | System<br>Checks Sat |
| 00:00                                        | Flow:                   | Flow:                   |  |                   |                      |
| 00:00                                        | Total:                  | Total:                  |  |                   |                      |
| 1:00                                         | Flow:                   | Flow:                   |  |                   |                      |
| 1:00                                         | Total:                  | Total:                  |  |                   |                      |
| 2:00                                         | Flow:                   | Flow:                   |  |                   |                      |
| 2:00                                         | Total:                  | Total:                  |  |                   |                      |
| 3:00                                         | Flow:                   | Flow:                   |  |                   |                      |
| 3:00                                         | Total:                  | Total:                  |  |                   |                      |
| 4:00<br><u>4:11</u>                          | Flow: <u>26856</u>      | Flow: <u>25648</u>      |  | <u>0.6</u>        | ✓                    |
| 4:00<br><u>4:11</u>                          | Total: <u>63360858</u>  | Total: <u>74404961</u>  |  | <u>0.6</u>        | ✓                    |
| 5:00                                         | Flow: <u>19711</u>      | Flow: <u>20061</u>      |  | <u>0.6</u>        | ✓                    |
| 5:00                                         | Total: <u>64325211</u>  | Total: <u>76378983</u>  |  | <u>0.6</u>        | ✓                    |
| 6:00                                         | Flow: <u>20497</u>      | Flow: <u>20206</u>      |  | <u>0.6</u>        | ✓                    |
| 6:00                                         | Total: <u>65592160</u>  | Total: <u>76634739</u>  |  | <u>0.6</u>        | ✓                    |
| 7:00                                         | Flow: <u>19722</u>      | Flow: <u>20154</u>      |  | <u>.6</u>         | ✓                    |
| 7:00                                         | Total: <u>66751616</u>  | Total: <u>77816506</u>  |  |                   | ✓                    |
| 8:00                                         | Flow: <u>32028</u>      | Flow: <u>31668</u>      |  | <u>.6</u>         | ✓                    |
| 8:00                                         | Total: <u>681656602</u> | Total: <u>79241540</u>  |  |                   | ✓                    |
| 9:00                                         | Flow: <u>32032</u>      | Flow: <u>30168</u>      |  | <u>.6</u>         | ✓                    |
| 9:00                                         | Total: <u>70080170</u>  | Total: <u>81058515</u>  |  |                   | ✓                    |
| 10:00                                        | Flow: <u>ERROR</u>      | Flow: <u>31313</u>      |  | <u>.6</u>         | ✓                    |
| 10:00                                        | Total: <u>ERROR</u>     | Total: <u>829107466</u> |  |                   | ✓                    |
| 11:00                                        | Flow: <u>ERROR</u>      | Flow: <u>84649307</u>   |  | <u>.6</u>         | ✓                    |
| 11:00                                        | Total: <u>ERROR</u>     | Total: <u>31241</u>     |  |                   | ✓                    |

PUMP OPERATOR

Kyle Carr/ELX  
CASHDate 09/02/15

VERIFIED BY PUMP

COORDINATOR N. SweeneyDate: 9/2/15

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET |                        |                        |  |  |                   | Month                | Day | Year |
|-------------------------------------|------------------------|------------------------|--|--|-------------------|----------------------|-----|------|
| Time                                | North Pump<br>(107944) | South Pump<br>(107939) |  |  | South Canal Level | System<br>Checks Sat |     |      |
| 12:00                               | Flow: <i>ERROR</i>     | Flow: <i>302589</i>    |  |  | <i>.6</i>         | ✓                    |     |      |
| 12:00                               | Total: <i>ERROR</i>    | Total: <i>46132000</i> |  |  | <i>.63</i>        | ✓                    |     |      |
| 13:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 13:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 14:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 14:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 15:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 15:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 16:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 16:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 17:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 17:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 18:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 18:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 19:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 19:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 20:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 20:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 21:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 21:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 22:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 22:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 23:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 23:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 24:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 24:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |

PUMP OPERATOR *ERSC OASH*

Date

*9/2/15*

VERIFIED BY PUMP

COORDINATOR \_\_\_\_\_

Date: \_\_\_\_\_

9/2-9/3

05:27 - 12:00

## ATTACHMENT 1

## Pump Coordinator Roles and Responsibilities

Date / Time

EVENT LOG BOOK

Page 1 of

|            |                                                 |                |
|------------|-------------------------------------------------|----------------|
| 9/02/18:00 | We did a prejob brief. Walked down the          |                |
| 1          | pump stations. we locked up the canoe           |                |
| 1          | We monitored the website. The total             |                |
| 1          | discharge flow was 576 ac. ft. at 05:20 hr.     |                |
| 9/3/0527   | The North station started pumps at 05:27 hr.    |                |
| 9/3/0532   | The South station started pumps at 05:32 hr.    |                |
| 9/3/0600   | The South station pumped                        | 1,706,684 gal. |
| 9/3/0600   | The North station Pumped                        | 1,860,328 gal. |
| 9/3/0700   | The North station Pumped                        | 3,756,090 gal  |
| 9/3/0700   | South station Pumped                            | 3,697,230 gal  |
| 9/3/0800   | South station Pumped                            | 3,724,486 gal  |
| 9/3/0800   | North station Pumped                            | 3,746,790 gal  |
| 9/3/0900   | North station Pumped                            | 3,724,620 gal  |
| 9/3/0900   | South station pumped                            | 3,667,860 gal  |
| 9/3/0943   | Dialed up South Pumps From 55 Hertz to 56 Hertz |                |
| 9/3/1000   | South station Pumped                            | 3,715,410 gal  |
| 9/3/1000   | North station Pumped                            | 3,684,240 gal  |
| 9/3/1100   | North station Pumped                            | 3,737,280 gal  |
| 9/3/1100   | South station Pumped                            | 3,819,030 gal  |
| 9/3/1125   | Dialed up south Pumps From 56 Hertz to 57 Hertz |                |
| 9/3/1200   | South station Pumped                            | 3,182,525 gal  |
| 9/3/1200   | North station Pumped                            | 3,458,231 gal  |
| 9/3/1200   |                                                 |                |
| 1          |                                                 |                |
| 9/3/1200   | <del>South</del> Total North water pumped       | 23,967,364 gal |
| 9/3/1200   | Total South water pumped into CCS               | 23,513,225 gal |
| 1          |                                                 |                |
| 1          |                                                 |                |
| 1          |                                                 |                |
| 1          |                                                 |                |
| 1          |                                                 |                |
| 1          |                                                 |                |
| 1          |                                                 |                |
| 1          |                                                 |                |
| 1          |                                                 |                |
| 1          |                                                 |                |
| 1          |                                                 |                |

Kyle Carr

09/03/15

Rev 5, 8/21/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Alan Sweeney Date: 8/7/15

Approved: [Signature] Date: 8/8/15

9/3/15

South station

Start 0532 Hours

End 1200 Hrs

Total Pumped into CCS

23,513,225 gals

Kyle Carr  
Eric Cash

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET |                        |                        |  |  |                   | Month                | Day | Year |
|-------------------------------------|------------------------|------------------------|--|--|-------------------|----------------------|-----|------|
|                                     |                        |                        |  |  |                   | 9                    | 3   | 2015 |
| Time                                | North Pump<br>(107944) | South Pump<br>(107939) |  |  | South Canal Level | System<br>Checks Sat |     |      |
| 00:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 00:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 1:00                                | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 1:00                                | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 2:00                                | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 2:00                                | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 3:00                                | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 3:00                                | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 4:00                                | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 4:00                                | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 5:00                                | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
| 5:32                                | 31199                  | 29046                  |  |  | 0.60              | ✓                    |     |      |
| 5:00                                | Total:                 | Total:                 |  |  |                   |                      |     |      |
| 5:32                                | 72745709               | 66254971               |  |  | 0.60              | ✓                    |     |      |
| 6:00                                | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
|                                     | 31649                  | 30012                  |  |  | 0.60              | ✓                    |     |      |
| 6:00                                | Total:                 | Total:                 |  |  |                   |                      |     |      |
|                                     | 73544759               | 86995106               |  |  | 0.60              | ✓                    |     |      |
| 7:00                                | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
|                                     | 31735                  | 30070                  |  |  | .6                | ✓                    |     |      |
| 7:00                                | Total:                 | Total:                 |  |  |                   |                      |     |      |
|                                     | 8075420383             | 88797846               |  |  |                   | ✓                    |     |      |
| 8:00                                | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
|                                     | 31576                  | 29851                  |  |  | .6                | ✓                    |     |      |
| 8:00                                | Total:                 | Total:                 |  |  |                   |                      |     |      |
|                                     | 77323878               | 90618839               |  |  |                   | ✓                    |     |      |
| 9:00                                | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
|                                     | 31787                  | 29046                  |  |  | .6                | ✓                    |     |      |
| 9:00                                | Total:                 | Total:                 |  |  |                   |                      |     |      |
|                                     | 77224519               | 90291486               |  |  |                   | ✓                    |     |      |
| 10:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
|                                     | 32654                  | 30358                  |  |  | .6                | ✓                    |     |      |
| 10:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
|                                     | 81100393               | 93822307               |  |  |                   | ✓                    |     |      |
| 11:00                               | Flow:                  | Flow:                  |  |  |                   |                      |     |      |
|                                     | 33165                  | 95685173               |  |  | .6                |                      |     |      |
| 11:00                               | Total:                 | Total:                 |  |  |                   |                      |     |      |
|                                     | 83076043               | 31124                  |  |  |                   |                      |     |      |

PUMP OPERATOR KYLE CAMPBELLDate 9/3/15

VERIFIED BY PUMP

COORDINATOR Andrew CooperDate: 9/3/15

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET |                            |                            |  |                              |                      |
|-------------------------------------|----------------------------|----------------------------|--|------------------------------|----------------------|
|                                     |                            | Month <u>09</u>            |  | Day <u>03</u> Year <u>15</u> |                      |
| Time                                | North Pump<br>(107944)     | South Pump<br>(107939)     |  | South Canal Level            | System<br>Checks Sat |
| 12:00                               | Flow:<br><u>34032</u>      | Flow:<br><u>32029</u>      |  | <u>.6</u>                    | ✓                    |
| 12:00                               | Total:<br><u>845389104</u> | Total:<br><u>970567114</u> |  | <u>.6</u>                    | ✓                    |
| 13:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 13:00                               | Total:                     | Total:                     |  |                              |                      |
| 14:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 14:00                               | Total:                     | Total:                     |  |                              |                      |
| 15:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 15:00                               | Total:                     | Total:                     |  |                              |                      |
| 16:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 16:00                               | Total:                     | Total:                     |  |                              |                      |
| 17:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 17:00                               | Total:                     | Total:                     |  |                              |                      |
| 18:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 18:00                               | Total:                     | Total:                     |  |                              |                      |
| 19:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 19:00                               | Total:                     | Total:                     |  |                              |                      |
| 20:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 20:00                               | Total:                     | Total:                     |  |                              |                      |
| 21:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 21:00                               | Total:                     | Total:                     |  |                              |                      |
| 22:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 22:00                               | Total:                     | Total:                     |  |                              |                      |
| 23:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 23:00                               | Total:                     | Total:                     |  |                              |                      |
| 24:00                               | Flow:                      | Flow:                      |  |                              |                      |
| 24:00                               | Total:                     | Total:                     |  |                              |                      |

PUMP OPERATOR ERIC CASHDate 9/3/15

VERIFIED BY PUMP

COORDINATOR A. CooperDate: 9/3/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Alan Sweeney Date: 8/7/15

Approved: A. P. Ingram Date: 8/8/15

Start 0527 Hrs  
End 1200 HRS

Total Pumped 23,967,364 gal

Debbie Cooper  
Pikie Ingram

Bryan Ingram

Rev 5, 8/21/15

ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET |                         |                           |                         |                                         |                                         |                      |
|----------------------------------------|-------------------------|---------------------------|-------------------------|-----------------------------------------|-----------------------------------------|----------------------|
|                                        |                         |                           |                         | Month                                   | Day                                     | Year                 |
|                                        |                         |                           |                         | 9                                       | 3                                       | 15                   |
| Time                                   | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal<br>Level<br>North of 344 St | South Canal<br>Level<br>South of 344 St | System<br>Checks Sat |
| 00:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 00:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 1:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 1:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 2:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 2:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 3:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 3:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 4:00                                   | Flow:                   | Flow:                     | Flow:                   | .70                                     | .60                                     | ✓                    |
| 4:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 5:00                                   | Flow:                   | Flow:                     | Flow:                   | .50                                     | .60                                     | ✓                    |
| 0527                                   | 22398                   | ERROR                     | 20704                   |                                         |                                         |                      |
| 5:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
|                                        | 1973072                 | ERROR                     | 25857122                |                                         |                                         |                      |
| 6:00                                   | Flow:                   | Flow:                     | Flow:                   | .40                                     | .6                                      | ✓                    |
|                                        | 21939                   | ERROR                     | 20367                   |                                         |                                         |                      |
| 6:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
|                                        | 20350680                | ERROR                     | 26437483                |                                         |                                         |                      |
| 7:00                                   | Flow:                   | Flow:                     | Flow:                   | .45                                     | .6                                      | ✓                    |
|                                        | 21655                   | ERROR                     | 20905                   |                                         |                                         |                      |
| 7:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
|                                        | 21610678                | ERROR                     | 27635636                |                                         |                                         |                      |
| 8:00                                   | Flow:                   | Flow:                     | Flow:                   | .5                                      | .65                                     | ✓                    |
|                                        | 21850                   | ERROR                     | 20483                   |                                         |                                         |                      |
| 8:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
|                                        | 2298474                 | ERROR                     | 28922240                |                                         |                                         |                      |
| 9:00                                   | Flow:                   | Flow:                     | Flow:                   | .6                                      | .65                                     | ✓                    |
|                                        | 21423                   | ERROR                     | 20396                   |                                         |                                         |                      |
| 9:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
|                                        | 24267769                | ERROR                     | 30128712                |                                         |                                         |                      |
| 10:00                                  | Flow:                   | Flow:                     | Flow:                   | .6                                      | .65                                     | ✓                    |
|                                        | 20648                   | ERROR                     | 20341                   |                                         |                                         |                      |
| 10:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
|                                        | 25527346                | ERROR                     | 31353965                |                                         |                                         |                      |
| 11:00                                  | Flow:                   | Flow:                     | Flow:                   | .6                                      | .65                                     | ✓                    |
|                                        | 22956                   | ERROR                     | 20631                   |                                         |                                         |                      |
| 11:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
|                                        | 26762278                | ERROR                     | 32542447                |                                         |                                         |                      |
| 12:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 11:55                                  | 21841                   | ERROR                     | 20318                   |                                         |                                         |                      |
| 12:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
|                                        | 27825161                | ERROR                     | 33557795                |                                         |                                         |                      |

PUMP OPERATOR: Debbie Cooper

Date: 9-3-15

VERIFIED BY PUMP

COORDINATOR: A. Cooper Date: 9/3/15

## ATTACHMENT 1

### Pump Coordinator Roles and Responsibilities

## Pump Coordinator Roles and Responsibilities

Page 4 of 4

Page 14 of 25

# SOUTH FLORIDA WATER MANAGEMENT WEBSITE SUMMARY OF DISCHARGES

Month 9

Date 3/4/15

Year 15

If Website is down Contract Control Room every 30 mins at 561-682-6116

| TIME | S21A | S20F | S20G | TOTAL DAILY DISCHARGE | TIMESTAMP OVER 504 | NOTES |
|------|------|------|------|-----------------------|--------------------|-------|
| c    |      |      |      |                       |                    |       |
| 1200 | 0    | 0    | 0    | 0                     |                    |       |
| 1215 | 0    | 0    | 0    | 0                     |                    |       |
| 1230 | 15   | 21   | 0    | 36                    |                    |       |
| 1245 | 15   | 21   | 0    | 36                    |                    |       |
| 1300 | 22   | 35   | 0    | 57                    |                    |       |
| 1400 |      |      |      |                       |                    |       |
| 1515 | 26   | 39   | 0    | 65                    |                    |       |
| 1600 | 26   | 39   | 0    | 65                    |                    |       |
| 1700 | 28   | 39   | 0    | 67                    |                    |       |
| 1730 | 41   | 39   | 4    | 84                    |                    |       |
| 1800 | 57   | 45   | 11   | 113                   |                    |       |
| 1830 | 71   | 60   | 11   | 142                   |                    |       |
| 1849 | 77   | 68   | 11   | 156                   |                    |       |
| 1903 | 81   | 76   | 11   | 168                   |                    |       |
| 1924 | 81   | 93   | 11   | 185                   |                    |       |
| 2007 | 81   | 110  | 11   | 202                   |                    |       |
| 2040 | 81   | 138  | 11   | 230                   |                    |       |
| 2100 | 81   | 147  | 11   | 239                   |                    |       |
| 2115 | 89   | 167  | 11   | 267                   |                    |       |
| 2145 | 106  | 177  | 11   | 294                   |                    |       |
| 2215 | 110  | 190  | 11   | 311                   |                    |       |
| 2230 | 110  | 190  | 11   | 311                   |                    |       |
| 2300 | 110  | 190  | 11   | 311                   |                    |       |
| 2320 | 110  | 190  | 11   | 311                   |                    |       |
| 2345 | 110  | 190  | 11   | 311                   |                    |       |
| 0045 | 135  | 190  | 16   | 341                   |                    |       |
| 0100 | 140  | 190  | 16   | 346                   |                    |       |
| 0115 | 144  | 190  | 16   | 350                   |                    |       |
| 0135 | 151  | 190  | 16   | 357                   |                    |       |
| 0155 | 154  | 190  | 16   | 360                   |                    |       |
| 0215 | 155  | 190  | 16   | 361                   |                    |       |
| 0215 | 155  | 190  | 16   | 361                   |                    |       |

wn

## SOUTH FLORIDA WATER MANAGEMENT WEBSITE SUMMARY OF DISCHARGES

Month

Date \_\_\_\_\_

Year

2015

If Website is down Contract Control Room every 30 mins at 561-682-6116

[illegible]

9/4

Rev 5, 8/21/15

# INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Alan Sweeney Date: 8/7/15

Approved: [Signature] Date: 8/8/15

Debbie Cooper

Brian Ingraham

North Pumps:

Total gals Pumped

19,890,571 gals

06:00-12:00

Bryan Ingram

Rev 5, 8/21/15

ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET

Month 9 Day 4 Year 2015

| Time  | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal<br>Level<br>North of 344 St | South Canal<br>Level<br>South of 344 St | System<br>Checks Sat |
|-------|-------------------------|---------------------------|-------------------------|-----------------------------------------|-----------------------------------------|----------------------|
| 00:00 | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 00:00 | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 1:00  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 1:00  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 2:00  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 2:00  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 3:00  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 3:00  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 4:00  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 4:00  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 5:00  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 5:00  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 6:00  | Flow: 21640             | Flow: ERROR               | Flow: 20498             | .5                                      | .65                                     | ✓                    |
| 6:37  | Total: 28052820         | Total: ERROR              | Total: 33746056         |                                         |                                         |                      |
| 7:00  | Flow: 21776             | Flow: ERROR               | Flow: 20036             | .5                                      | .65                                     | ✓                    |
| 7:00  | Total: 28515348         | Total: ERROR              | Total: 34188572         |                                         |                                         |                      |
| 8:00  | Flow: 22723             | Flow: ERROR               | Flow: 20158             | .6                                      | .65                                     | ✓                    |
| 8:00  | Total: 29899482         | Total: ERROR              | Total: 35432569         |                                         |                                         |                      |
| 9:00  | Flow: 22107             | Flow: ERROR               | Flow: 20331             | .55                                     | .65                                     | ✓                    |
| 9:00  | Total: 31071775         | Total: ERROR              | Total: 36495465         |                                         |                                         |                      |
| 10:00 | Flow: 21947             | Flow: ERROR               | Flow: 20166             | .6                                      | .65                                     | ✓                    |
| 10:00 | Total: 32399629         | Total: ERROR              | Total: 37723384         |                                         |                                         |                      |
| 11:00 | Flow: 22080             | Flow: ERROR               | Flow: 20104             | .6                                      | .65                                     | ✓                    |
| 11:00 | Total: 33685561         | Total: ERROR              | Total: 38896355         |                                         |                                         |                      |
| 12:00 | Flow: 22246             | Flow: ERROR               | Flow: 20183             | .6                                      | .65                                     | ✓                    |
| 12:00 | Total: 34745735         | Total: ERROR              | Total: 39860762         |                                         |                                         |                      |

285135340

PUMP OPERATOR

Date

Bryan Ingram  
9-4-15

VERIFIED BY PUMP  
COORDINATOR

Date

A. Cooper  
9/4/15

9/4

ERIC CASH  
Kyle Carr

9/4/15

Rev 5, 8/21/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Alan Sweeney Date: 8/7/15

Approved: A. F. [Signature] Date: 8/8/15

South Pumps:

Total gals pumped

19,377,281 gals

06:00 - Noon

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET |                        |                        |  |                   |                      |
|-------------------------------------|------------------------|------------------------|--|-------------------|----------------------|
|                                     |                        | Month                  |  | Day               |                      |
|                                     |                        | 9                      |  | 04                |                      |
|                                     |                        | Year                   |  | 2015              |                      |
| Time                                | North Pump<br>(107944) | South Pump<br>(107939) |  | South Canal Level | System<br>Checks Sat |
| 00:00                               | Flow:                  | Flow:                  |  |                   |                      |
| 00:00                               | Total:                 | Total:                 |  |                   |                      |
| 1:00                                | Flow:                  | Flow:                  |  |                   |                      |
| 1:00                                | Total:                 | Total:                 |  |                   |                      |
| 2:00                                | Flow:                  | Flow:                  |  |                   |                      |
| 2:00                                | Total:                 | Total:                 |  |                   |                      |
| 3:00                                | Flow:                  | Flow:                  |  |                   |                      |
| 3:00                                | Total:                 | Total:                 |  |                   |                      |
| 4:00                                | Flow:                  | Flow:                  |  |                   |                      |
| 4:00                                | Total:                 | Total:                 |  |                   |                      |
| 5:00                                | Flow:                  | Flow:                  |  |                   |                      |
| 5:00                                | Total:                 | Total:                 |  |                   |                      |
| 6:00<br>6:42                        | Flow:<br>32094         | Flow:<br>30252         |  | .6                | ✓                    |
| 6:00<br>6:42                        | Total:<br>84652143     | Total:<br>97179974     |  |                   | ✓                    |
| 7:00                                | Flow:<br>31740         | Flow:<br>31019         |  | .6                | ✓                    |
| 7:00                                | Total:<br>85173027     | Total:<br>976685359    |  |                   | ✓                    |
| 8:00                                | Flow:<br>31801         | Flow:<br>31051         |  | .6                | ✓                    |
| 8:00                                | Total:<br>8708841309   | Total:<br>976346384    |  |                   | ✓                    |
| 9:00                                | Flow:<br>32052         | Flow:<br>30117         |  | .6                | ✓                    |
| 9:00                                | Total:<br>889579134    | Total:<br>1174931      |  |                   | ✓                    |
| 10:00                               | Flow:<br>34431         | Flow:<br>31576         |  | .6                | ✓                    |
| 10:00                               | Total:<br>90982011     | Total:<br>2949498      |  |                   | ✓                    |
| 11:00                               | Flow:<br>34228         | Flow:<br>31553         |  | .6                | ✓                    |
| 11:00                               | Total:<br>93068122     | Total:<br>44676322     |  |                   | ✓                    |

PUMP OPERATOR ERIC CASHDate 9/4/15

VERIFIED BY PUMP

COORDINATOR Andrea CooperDate: 9/4/15

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET            |                        |                        |  |                   |                      |
|------------------------------------------------|------------------------|------------------------|--|-------------------|----------------------|
| Month <u>09</u> Day <u>04</u> Year <u>2015</u> |                        |                        |  |                   |                      |
| Time                                           | North Pump<br>(107944) | South Pump<br>(107939) |  | South Canal Level | System<br>Checks Sat |
| 12:00                                          | Flow: <u>33551</u>     | Flow: <u>30761</u>     |  | <u>.6</u>         | ✓                    |
| 12:00                                          | Total: <u>94463112</u> | Total: <u>6132141</u>  |  | <u>.6</u>         | ✓                    |
| 13:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 13:00                                          | Total:                 | Total:                 |  |                   |                      |
| 14:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 14:00                                          | Total:                 | Total:                 |  |                   |                      |
| 15:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 15:00                                          | Total:                 | Total:                 |  |                   |                      |
| 16:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 16:00                                          | Total:                 | Total:                 |  |                   |                      |
| 17:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 17:00                                          | Total:                 | Total:                 |  |                   |                      |
| 18:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 18:00                                          | Total:                 | Total:                 |  |                   |                      |
| 19:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 19:00                                          | Total:                 | Total:                 |  |                   |                      |
| 20:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 20:00                                          | Total:                 | Total:                 |  |                   |                      |
| 21:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 21:00                                          | Total:                 | Total:                 |  |                   |                      |
| 22:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 22:00                                          | Total:                 | Total:                 |  |                   |                      |
| 23:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 23:00                                          | Total:                 | Total:                 |  |                   |                      |
| 24:00                                          | Flow:                  | Flow:                  |  |                   |                      |
| 24:00                                          | Total:                 | Total:                 |  |                   |                      |

PUMP OPERATOR ELISE CASHDate 9/4/15

VERIFIED BY PUMP

COORDINATOR A CooperDate: 9/4/15

Pump Run  
9/4 - 9/5/15

# ATTACHMENT 1 Pump Coordinator Roles and Responsibilities

Date / Time

EVENT LOG BOOK

Page 1 of

9/04/2300 We did a pre-job brief. We walked down  
1 both pump stations. We hauled debris from the  
1 pump area to the dumpster. We monitored the  
1 website.  
9/05/0251 Total discharge reached 507 ac. ft. of water  
9/05/0253 started North Pumps at 60 Hz,  
9/05/0258 started South Pumps at 55 Hz.  
9/05/0315 adjusted south pumps to 58 Hz.  
9/05/0400 North station pumped 4,370,912 gal. 02:53-04:00  
9/05/0400 South station pumped 3,949,865 gal. 02:58-04:00  
9/05/0500 South station pumped 3,982,630 gal.  
9/05/0500 North station pumped 3,908,580 gal.  
9/05/0600 North station pumped 3,893,220  
9/05/0600 South station pumped 3,996,360  
9/05/0700 North station pumped 3,897,120  
9/05/0700 South station pumped 4,009,200  
\* 10700 Turned South Station from 58 Hz to 57 Hz  
9/05/0800 North station pumped 3,900,960  
9/05/0800 South station pumped 3,962,400  
9/05/0900 North station pumped 3,904,380  
9/05/0900 South station pumped 3,946,440  
9/05/1000 North station pumped 3,894,060  
9/05/1000 South station pumped 4,005,120  
\* 11015 Turned South Station from 57 Hz to 56 Hz  
9/5/1100 North station pumped 3,872,640  
9/5/1100 South station pumped 3,962,820  
9/5/1155 North station pumped 3,657,870  
9/5/1150 South station pumped 3,213,250

9/4 Final Run Totals

North: 35,299,742  
South: 35,033,085

Debbie Cooper - N  
Pikie Ingram - D

Rev 5, 8/21/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Alan Sweeney Date: 8/7/15

Approved: A. P. [Signature] Date: 8/8/15

Pump Run for 9/4/15

North Station

Total: 02:53-12:00

35,299,742

Bryan Ingram  
9-5-15

Rev 5, 8/21/15

ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET |                         |                           |                         |                                         |                                         |                      |
|----------------------------------------|-------------------------|---------------------------|-------------------------|-----------------------------------------|-----------------------------------------|----------------------|
| Month 9 Day 5 Year 15                  |                         |                           |                         |                                         |                                         |                      |
| Time                                   | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal<br>Level<br>North of 344 St | South Canal<br>Level<br>South of 344 St | System<br>Checks Sat |
| 00:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 00:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 1:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 1:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 2:00<br>0253                           | Flow:<br>22663          | Flow:<br>21744            | Flow:<br>20625          | .70                                     | .70                                     | ✓                    |
| 2:00                                   | Total:<br>34997150      | Total:<br>16500169        | Total:<br>40077413      |                                         |                                         |                      |
| 3:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         | ✓                    |
| 3:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 4:00                                   | Flow:<br>22890          | Flow:<br>ERROR            | Flow:<br>20897          | .75                                     | .70                                     | ✓                    |
| 4:00                                   | Total:<br>36495787      | Total:<br>ERROR           | Total:<br>41447211      |                                         |                                         |                      |
| 5:00                                   | Flow:<br>22152          | Flow:<br>ERROR            | Flow:<br>20953          | .75                                     | .70                                     | ✓                    |
| 5:00                                   | Total:<br>37838646      | Total:<br>ERROR           | Total:<br>42495988      |                                         |                                         |                      |
| 6:00                                   | Flow:<br>22216          | Flow:<br>ERROR            | Flow:<br>21053          | .75                                     | .7                                      | ✓                    |
| 6:00                                   | Total:<br>39108368      | Total:<br>ERROR           | Total:<br>43899961      |                                         |                                         |                      |
| 7:00                                   | Flow:<br>22191          | Flow:<br>ERROR            | Flow:<br>21043          | .75                                     | .7                                      | ✓                    |
| 7:00                                   | Total:<br>40445744      | Total:<br>ERROR           | Total:<br>45161955      |                                         |                                         |                      |
| 8:00                                   | Flow:<br>22415          | Flow:<br>ERROR            | Flow:<br>20982          | .75                                     | .7                                      | ✓                    |
| 8:00                                   | Total:<br>41771688      | Total:<br>ERROR           | Total:<br>46418744      |                                         |                                         |                      |
| 9:00                                   | Flow:<br>22410          | Flow:<br>ERROR            | Flow:<br>20937          | .75                                     | .7                                      | ✓                    |
| 9:00                                   | Total:<br>43097646      | Total:<br>ERROR           | Total:<br>47669854      |                                         |                                         |                      |
| 10:00                                  | Flow:<br>22124          | Flow:<br>ERROR            | Flow:<br>20931          | .75                                     | .7                                      | ✓                    |
| 10:00                                  | Total:<br>44425356      | Total:<br>ERROR           | Total:<br>48938467      |                                         |                                         |                      |
| 11:00                                  | Flow:<br>22331          | Flow:<br>ERROR            | Flow:<br>20301          | .75                                     | .65                                     | ✓                    |
| 11:00                                  | Total:<br>45740223      | Total:<br>ERROR           | Total:<br>50177094      |                                         |                                         |                      |
| 11:55<br>12:00                         | Flow:<br>22752          | Flow:<br>ERROR            | Flow:<br>20282          | .75                                     | .7                                      | ✓                    |
| 12:00                                  | Total:<br>46848452      | Total:<br>ERROR           | Total:<br>51177844      |                                         |                                         |                      |

BD

PUMP OPERATOR Debbie Cooper  
Date 9-5-15

VERIFIED BY PUMP  
COORDINATOR N. Sweeney Date: 9/5/15

## ATTACHMENT 2

NORTH PUMPING STATION HOURLY LOG SHEET Month 9 Day 4 Year 15

| Time  | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal Level<br>North of 344 St | South Canal Level<br>South of 344 St | System Checks<br>Sat |
|-------|-------------------------|---------------------------|-------------------------|--------------------------------------|--------------------------------------|----------------------|
| 13:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 13:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 14:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 14:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 15:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 15:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 16:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 16:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 17:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 17:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 18:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 18:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 19:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 19:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 20:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 20:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 21:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 21:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 22:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 22:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 23:00 | Flow:                   | Flow:                     | Flow:                   | - 40                                 | . 65                                 |                      |
| 23:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 24:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 24:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |

PUMP

OPERATOR

Date

Debbie Cooper  
9-4-15

Page 19 of 25

VERIFIED BY PUMP

COORDINATOR

Date:

N. Sweeney  
9/5/15

Kyle Carr 09/04/15 - N  
Eric Cash 9/05/15 - D

Rev 5, 8/21/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Nan Sweeney Date: 8/7/15  
Approved: [Signature] Date: 8/8/15

Pump Run for (9/4/15)

South Station

Total - 02:58 - 12:00

(35,033,085)

## ATTACHMENT 3

SOUTH PUMP STATION HOURLY LOG SHEET Month 9 Day 5 Year 2015

| Time  | North Pump<br>(107944) | South Pump<br>(107939) |  | South Canal Level | System<br>Checks Sat |
|-------|------------------------|------------------------|--|-------------------|----------------------|
| 00:00 | Flow:                  | Flow:                  |  |                   |                      |
| 00:00 | Total:                 | Total:                 |  |                   |                      |
| 1:00  | Flow:                  | Flow:                  |  |                   |                      |
| 1:00  | Total:                 | Total:                 |  |                   |                      |
| 2:00  | Flow:                  | Flow:                  |  |                   |                      |
| 2:00  | 31414                  | 29649                  |  | 0.60              | ✓                    |
| 2:00  | Total:                 | Total:                 |  |                   |                      |
| 2:00  | 94682669               | 6327535                |  | 0.60              | ✓                    |
| 3:00  | Flow:                  | Flow:                  |  |                   |                      |
| 3:00  | Total:                 | Total:                 |  |                   |                      |
| 4:00  | Flow:                  | Flow:                  |  |                   |                      |
| 4:00  | 34174                  | 32178                  |  | 0.60              | ✓                    |
| 4:00  | Total:                 | Total:                 |  |                   |                      |
| 4:00  | 96569958               | 8192695                |  | 0.60              | ✓                    |
| 5:00  | Flow:                  | Flow:                  |  |                   |                      |
| 5:00  | 34185                  | 32384                  |  | 0.60              | ✓                    |
| 5:00  | Total:                 | Total:                 |  |                   |                      |
| 5:00  | 98559075               | 10115819               |  | 0.60              | ✓                    |
| 6:00  | Flow:                  | Flow:                  |  |                   |                      |
| 6:00  | 34149                  | 32699                  |  | 0.60              | ✓                    |
| 6:00  | Total:                 | Total:                 |  |                   |                      |
| 6:00  | 542588                 | 12049087               |  | 0.60              | ✓                    |
| 7:00  | Flow:                  | Flow:                  |  |                   |                      |
| 7:00  | 34009                  | 32783                  |  | .60               | ✓                    |
| 7:00  | Total:                 | Total:                 |  |                   |                      |
| 7:00  | 2562521                | 14005728               |  |                   | ✓                    |
| 8:00  | Flow:                  | Flow:                  |  |                   |                      |
| 8:00  | 33323                  | 31964                  |  | .60               | ✓                    |
| 8:00  | Total:                 | Total:                 |  |                   |                      |
| 8:00  | 45559911               | 15943275               |  |                   | ✓                    |
| 9:00  | Flow:                  | Flow:                  |  |                   |                      |
| 9:00  | 33841                  | 17671503               |  | .60               | ✓                    |
| 9:00  | Total:                 | Total:                 |  |                   |                      |
| 9:00  | 6577049                | 32470                  |  |                   | ✓                    |
| 10:00 | Flow:                  | Flow:                  |  |                   |                      |
| 10:00 | 34769                  | 32473                  |  | .60               | ✓                    |
| 10:00 | Total:                 | Total:                 |  |                   |                      |
| 10:00 | 8623057                | 19403522               |  |                   | ✓                    |
| 11:00 | Flow:                  | Flow:                  |  |                   |                      |
| 11:00 | 33667                  | 31191                  |  | .60               | ✓                    |
| 11:00 | Total:                 | Total:                 |  |                   |                      |
| 11:00 | 10711845               | 21743715               |  |                   | ✓                    |

PUMP OPERATOR ERIC CASHDate 9/5/15

VERIFIED BY PUMP

COORDINATOR N. SweeneyDate: 9/5/15

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET |                        |                        |  |  | Month             | Day | Year                 |
|-------------------------------------|------------------------|------------------------|--|--|-------------------|-----|----------------------|
|                                     |                        |                        |  |  | 9                 | 5   | 2015                 |
| Time                                | North Pump<br>(107944) | South Pump<br>(107939) |  |  | South Canal Level |     | System<br>Checks Sat |
| 12:00                               | Flow:<br>32982         | Flow:<br>30694         |  |  | .6                |     | ✓                    |
| 12:00                               | Total:<br>12020201     | Total:<br>11961773     |  |  | .62               |     | ✓                    |
| 13:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 13:00                               | Total:                 | Total:                 |  |  |                   |     |                      |
| 14:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 14:00                               | Total:                 | Total:                 |  |  |                   |     |                      |
| 15:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 15:00                               | Total:                 | Total:                 |  |  |                   |     |                      |
| 16:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 16:00                               | Total:                 | Total:                 |  |  |                   |     |                      |
| 17:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 17:00                               | Total:                 | Total:                 |  |  |                   |     |                      |
| 18:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 18:00                               | Total:                 | Total:                 |  |  |                   |     |                      |
| 19:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 19:00                               | Total:                 | Total:                 |  |  |                   |     |                      |
| 20:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 20:00                               | Total:                 | Total:                 |  |  |                   |     |                      |
| 21:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 21:00                               | Total:                 | Total:                 |  |  |                   |     |                      |
| 22:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 22:00                               | Total:                 | Total:                 |  |  |                   |     |                      |
| 23:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 23:00                               | Total:                 | Total:                 |  |  |                   |     |                      |
| 24:00                               | Flow:                  | Flow:                  |  |  |                   |     |                      |
| 24:00                               | Total:                 | Total:                 |  |  |                   |     |                      |

PUMP OPERATOR ERIC CASH

Date

9/5/15

VERIFIED BY PUMP

COORDINATOR

M. Sweeney Date:

9/5/15

Debbie Cooper

Brian Ingrahm

Rev 5, 8/21/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Alan Sweeney Date: 8/7/15  
Approved: [Signature] Date: 8/8/15

9/5 Pump Run  
North Station  
21:36 - 12:00

# 9/5 Pump Run

## ATTACHMENT 1 Pump Coordinator Roles and Responsibilities

| Date / Time         | EVENT LOG BOOK                                                        | Page 1 of 2     |
|---------------------|-----------------------------------------------------------------------|-----------------|
| <del>9/5/2136</del> |                                                                       |                 |
| 9/5/2136            | Pump operators & paperwork, Inspected pumps and checked for wildlife. |                 |
| 9/5/2136            | Started L-31 North pumps.                                             |                 |
| 9/5/2141            | Started South Pumps.                                                  |                 |
| 9/5/2142            | Contacted SFWMD & Ray Modre.                                          |                 |
| 9/5/2200            | North Pumped                                                          | 1,540,440 gals  |
| 9/5/2200            | South Pumped                                                          | 1,450,968 gals  |
| 9/5/2300            | South Pumped                                                          | 3,666,720 gals  |
| 9/5/2300            | North Pumped                                                          | 3,864,480 gals  |
| 9/6/0000            | North Pumped                                                          | 3,879,780 gals  |
| 9/6/0000            | South Pumped                                                          | 3,767,880 gals  |
| 9/6/0100            | South Pumped                                                          | 3,757,620 gals  |
| 9/6/0100            | North Pumped                                                          | 3,880,860 gals  |
| 9/6/0200            | North Pumped                                                          | 3,888,540 gals  |
| 9/6/0200            | South Pumped                                                          | 3,779,100 gals  |
| 9/6/0300            | South Pumped                                                          | 3,766,560 gals  |
| 9/6/0300            | North Pumped                                                          | 3,891,540 gals  |
| 9/6/0400            | North Pumped                                                          | 3,879,160 gals  |
| 9/6/0400            | South Pumped                                                          | 3,850,020 gals  |
| 9/6/0500            | South Pumped                                                          | 3,932,800 gals  |
| 9/6/0500            | North Pumped                                                          | 3,886,560 gals  |
| 9/6/0500            | Subtotal Pumped North side                                            | 28,731,360 gals |
| 9/6/0500            | Subtotal Pumped South side                                            | 27,971,188 gals |
| 9/6/0600            | North Pumped                                                          | 3,888,840 gals  |
| 9/6/0600            | South Pumped                                                          | 3,932,430 gals  |
| 9/6/0700            | South Pumped                                                          | 3,935,790 gals  |
| 9/6/0700            | North Pumped                                                          | 3,884,940 gals  |
| 9/6/0700            | Subtotal North                                                        | 36,505,140 gals |
| 9/6/0700            | Subtotal South                                                        | 35,839,408 gals |
| 9/6/0800            | North Pumped                                                          | 3,888,830 gals  |
| 9/6/0800            | South Pumped                                                          | 3,940,920 gals  |
| 9/6/0838            | Dialed up South pumps from 57 Hertz to 58 Hertz.                      |                 |
| 9/6/0900            | South Pumped                                                          | 4,025,490 gals  |
| 9/6/0900            | North Pumped                                                          | 3,859,740 gals  |

9/5 Pump Run

ATTACHMENT 1

## Pump Coordinator Roles and Responsibilities

[illegible]

9-5-15-9-6-15

Rev 5, 8/21/15

## ATTACHMENT 2

### North Pump Operator Roles and Responsibilities

Bryan Ingram  
9-6-15

Document on the log sheet periodic maintenance/lubrication and pump level changes.

Every hour Check out the system for the following and document on the hourly log sheet:

- i) External leakage
- ii) Signs of shore erosion
- iii) Excessive pipe movement
- iv) Intake Grate fouling or debris/wildlife approach
- v) Erratic pump motor amperage ( $> \pm 10\%$  of benchmark full flow value)

Date / Time

EVENT LOG BOOK

Page 1 of \_

9-5 12136 504 reached - North pumps station started.  
 1 Center pump reading ERROR code 0010 All other  
 1 readings normal. Pumps running appropriately.  
 12200 - no changes noted.  
 12300 - no changes noted.  
 9-6 10000 - no changes noted  
 10100 - no changes noted.  
 10200 - no changes noted.  
 10300 - no changes noted.  
 10350 Flood lights went out both North + South stations  
 1 Cords unplugged. Units hot to touch. Notify pump  
 1 coordinator - Brad. Units allowed to cool down.  
 1 Lights working again after cool down @ both stations  
 1 @ this time.  
 10400 - no changes noted.  
 10500 - no changes noted.  
 10600 - Check for wildlife, grass and debris  
 10700 - Check pumps and P tubes, check for grass, debris  
 1 and wildlife  
 10800 - Check for wildlife, grass and debris  
 1 West 60.00 Hz 62.0A Center 60.00 Hz 61.6A  
 1 East 60.00 Hz 66.2A  
 10900 - Check for wildlife, grass and debris  
 11000 - Check center pump for small noise and one  
 1 minute later noise went away. Check for wildlife  
 1 grass and debris  
 11100 Check all pumps and running good, check for  
 1 wildlife, grass and debris

OVER

Bryan Ingram  
9-6-15 Rev 5, 8/21/15

ATTACHMENT 2  
North Pump Operator Roles and Responsibilities

Date / Time

EVENT LOG BOOK

Page 2 of \_

9/6/15  
11:55 at 11:49 we start back flushing pumps  
by turning them on and off repeatedly  
three times consecutive for two minutes on  
and off for two minutes each time  
Turn off all three pumps at 11:55  
Check for wildlife, grass and debris

9/5 Pump Run

Bryan Ingram  
9-6-15 Rev 5, 8/21/15

ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET |                         |                           |                         |                                         |                                         |                      |
|----------------------------------------|-------------------------|---------------------------|-------------------------|-----------------------------------------|-----------------------------------------|----------------------|
|                                        |                         |                           |                         | Month                                   | 9                                       | Day 4 Year 15        |
| Time                                   | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal<br>Level<br>North of 344 St | South Canal<br>Level<br>South of 344 St | System<br>Checks Sat |
| 00:00                                  | Flow:<br>22534          | Flow:<br>ERROR            | Flow:<br>20429          | .55                                     | .75                                     | ✓                    |
| 00:00                                  | Total:<br>50057186      | Total:<br>ERROR           | Total:<br>54141311      |                                         |                                         |                      |
| 1:00                                   | Flow:<br>22535          | Flow:<br>ERROR            | Flow:<br>20444          | .60                                     | .75                                     | ✓                    |
| 1:00                                   | Total:<br>51416800      | Total:<br>ERROR           | Total:<br>55375213      |                                         |                                         |                      |
| 2:00                                   | Flow:<br>22457          | Flow:<br>ERROR            | Flow:<br>20452          | .70                                     | .75                                     | ✓                    |
| 2:00                                   | Total:<br>52765709      | Total:<br>ERROR           | Total:<br>56601401      |                                         |                                         |                      |
| 3:00                                   | Flow:<br>22388          | Flow:<br>ERROR            | Flow:<br>20771          | .70                                     | .75                                     | ✓                    |
| 3:00                                   | Total:<br>54117258      | Total:<br>ERROR           | Total:<br>57832653      |                                         |                                         |                      |
| 4:00                                   | Flow:<br>22481          | Flow:<br>ERROR            | Flow:<br>20805          | .70                                     | .75                                     | ✓                    |
| 4:00                                   | Total:<br>55475469      | Total:<br>ERROR           | Total:<br>59071458      |                                         |                                         |                      |
| 5:00                                   | Flow:<br>22539          | Flow:<br>ERROR            | Flow:<br>20557          | .70                                     | .75                                     | ✓                    |
| 5:00                                   | Total:<br>56883956      | Total:<br>ERROR           | Total:<br>60365170      |                                         |                                         |                      |
| 6:00                                   | Flow:<br>22535          | Flow:<br>ERROR            | Flow:<br>20597          | .7                                      | .75                                     | ✓                    |
| 6:00                                   | Total:<br>58085490      | Total:<br>ERROR           | Total:<br>61466552      |                                         |                                         |                      |
| 7:00                                   | Flow:<br>22374          | Flow:<br>ERROR            | Flow:<br>20592          | .65                                     | .75                                     | ✓                    |
| 7:00                                   | Total:<br>59431832      | Total:<br>ERROR           | Total:<br>62697923      |                                         |                                         |                      |
| 8:00                                   | Flow:<br>22199          | Flow:<br>ERROR            | Flow:<br>20296          | .5                                      | .75                                     | ✓                    |
| 8:00                                   | Total:<br>60756788      | Total:<br>ERROR           | Total:<br>63920499      |                                         |                                         |                      |
| 9:00                                   | Flow:<br>22497          | Flow:<br>ERROR            | Flow:<br>20266          | .4                                      | .75                                     | ✓                    |
| 9:00                                   | Total:<br>62052387      | Total:<br>ERROR           | Total:<br>65098110      |                                         |                                         |                      |
| 10:00                                  | Flow:<br>22048          | Flow:<br>ERROR            | Flow:<br>20309          | .5                                      | .75                                     | ✓                    |
| 10:00                                  | Total:<br>63502178      | Total:<br>ERROR           | Total:<br>66392362      |                                         |                                         |                      |
| 11:00                                  | Flow:<br>23254          | Flow:<br>ERROR            | Flow:<br>20246          | .6                                      | .75                                     | ✓                    |
| 11:00                                  | Total:<br>64822071      | Total:<br>ERROR           | Total:<br>67529099      |                                         |                                         |                      |
| 11:35                                  | Flow:<br>22892          | Flow:<br>ERROR            | Flow:<br>20265          | .65                                     | .75                                     | ✓                    |
| 12:00                                  | Total:<br>65901777      | Total:<br>ERROR           | Total:<br>68464760      |                                         |                                         |                      |

BO

PUMP OPERATOR: A. Cooper  
Date: 9-6-15

VERIFIED BY PUMP  
COORDINATOR: A. Cooper Date: 9/6/15

9/5 Pump Run

Rev 5, 8/21/15

ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET Month 9 Day 5 Year 15 |                         |                           |                         |                                      |                                      |                      |
|--------------------------------------------------------------|-------------------------|---------------------------|-------------------------|--------------------------------------|--------------------------------------|----------------------|
| Time                                                         | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal Level<br>North of 344 St | South Canal Level<br>South of 344 St | System Checks<br>Sat |
| 13:00                                                        | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 13:00                                                        | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 14:00                                                        | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 14:00                                                        | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 15:00                                                        | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 15:00                                                        | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 16:00                                                        | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 16:00                                                        | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 17:00                                                        | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 17:00                                                        | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 18:00                                                        | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 18:00                                                        | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 19:00                                                        | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 19:00                                                        | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 20:00                                                        | Flow:                   | Flow:                     | Flow:                   | .40                                  | .75                                  | ✓                    |
| 20:00                                                        | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 21:00                                                        | Flow:<br>21772          | Flow:<br>ERROR            | Flow:<br>20713          | .45                                  | .75                                  | ✓                    |
| 21:00                                                        | Total:<br>47000805      | Total:<br>ERROR           | Total:<br>51288087      |                                      |                                      |                      |
| 22:00                                                        | Flow:<br>208661         | Flow:<br>ERROR            | Flow:<br>20523          | .40                                  | .75                                  | ✓                    |
| 22:00                                                        | Total:<br>47423625      | Total:<br>ERROR           | Total:<br>51702094      |                                      |                                      |                      |
| 23:00                                                        | Flow:<br>22432          | Flow:<br>ERROR            | Flow:<br>20276          | .40                                  | .75                                  | ✓                    |
| 23:00                                                        | Total:<br>48719848      | Total:<br>ERROR           | Total:<br>52915777      |                                      |                                      |                      |
| 24:00                                                        | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 24:00                                                        | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |

PUMP  
OPERATOR: Gordon Cooper  
Date: 9-5-15

VERIFIED BY PUMP  
COORDINATOR: A. Cooper  
Date: 9-6-15

### **ATTACHMENT 3**

#### **South Pump Operator Roles and Responsibilities**

The AWE South Pump Operator is responsible for the safe operation of the two 36" axial pumps. All pumping evolutions will be at the direction of the Pump Coordinator except if an emergency shutdown is required. All events or equipment issues will be documented in the enclosed Event Log and will be immediately reported to the Pump Coordinator.

Responsibilities of the Pump Operator include but are not limited to the following items:

- Maintaining the safe operation of the South Pumping Station and performing and logging required periodic maintenance/lubrication of pump equipment
- Ensuring Pump Stations remain in compliance with the:
  - Class 1 Construction permit, permit # CLI-2014-0312
  - South Florida Water Management District Emergency Order, SFWMD No. 2015-034-DAO-WU/ROW/ERP
  - Army Corps of Engineer Permit, SAJ-2014-02451 (NWP/GP-MLC)
- Communicating any issues with pump performance or compliance with the permit to the Pump Coordinator
- Performing Emergency Response activities to address an evacuation order
- Monitor the transformer containment pad daily and drain the water when it rains
- Maintaining Pump flows at the direction of the Pump Coordinator
- Perform Manatee and crocodile watch when pumps are running (Polarized lenses are required for Manatee watch)
- Perform all designated routines, readings and recordings throughout the shift including maintaining housekeeping standards at the South Pumping Station
- Maintain a 24 hour Event Log of daily activities, 00:00hrs through 11:59hrs (to be part of the submittal)
- Maintaining 24/7 coverage of the South Pump Station when the South Pumps are operational

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET |                        |                        | Month | Day | Year              |                      |
|-------------------------------------|------------------------|------------------------|-------|-----|-------------------|----------------------|
| Time                                | North Pump<br>(107944) | South Pump<br>(107939) |       |     | South Canal Level | System<br>Checks Sat |
| 12:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 12:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 13:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 13:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 14:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 14:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 15:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 15:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 16:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 16:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 17:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 17:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 18:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 18:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 19:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 19:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 20:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 20:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 21:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 21:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 22:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 22:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 23:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 23:00                               | Total:                 | Total:                 |       |     |                   |                      |
| 24:00                               | Flow:                  | Flow:                  |       |     |                   |                      |
| 24:00                               | Total:                 | Total:                 |       |     |                   |                      |

PUMP OPERATOR \_\_\_\_\_

Date \_\_\_\_\_

VERIFIED BY PUMP  
COORDINATOR \_\_\_\_\_

Date: \_\_\_\_\_

Kyle Carr 09/08/14  
ARCCASH

Rev 5, 8/21/15

# INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Alan Sweeney Date: 8/7/15

Approved: A. P. [Signature] Date: 8/8/15

(9/5) Pump Run

South Station

21:41 - 12:00

**ATTACHMENT 1****Pump Coordinator Roles and Responsibilities**

The FPL Pump Coordinator is the main point of contact for all activities associated with the injection of L31 Canal water into the Canal Cooling System.

The Pump Coordinator will report to FPL Environmental and will provide direction to the Pump Operators on Starting and Stopping of the pumps including infrequent operations involving the emergency shutdown of all pumping equipment.

Responsibilities of the Pump Coordinator include but are not limited to the following items:

- Maintaining the safe operation of the North and South Pumping Stations
- Briefing the Pump Operators on their roles and responsibilities
- Ensuring Pump Stations remain in compliance with the:
  - Class 1 Construction permit, permit # CLI-2014-0312
  - South Florida Water Management District Emergency Order, SFWMD No. 2015-034-DAO-WU/ROW/ERP
  - Army Corps of Engineer Permit, SAJ-2014-02451 (NWP/GP-MLC)
- Communicating any issues with pump performance or compliance with the permit to the Control Room and Environmental
- Coordination of Emergency Response activities to address an evacuation
- Obtaining the daily water pump start authorization and maintaining Pumping Stations in compliance with the SFWMD permitted pumping start time. Authorization is defined as after the daily SFWMD bay discharge quota is reached.
- Coordinating Pump starts/stops at the North and South Pumping Stations
- Ensuring Pump Operators perform all designated routines throughout the shift
- Maintain a 24 hour Event Log of daily activities, 00:00hrs through 11:59hrs (to be part of the submittal)

## ATTACHMENT 1

### Pump Coordinator Roles and Responsibilities

- Periodically inspect each Pump Station (approx. once per 3hrs) to verify and validate (V&V) recorded data of the operators and conduct of Pump Operations
- Maintaining 24/7 coverage of the Pump Stations when the North and South Pumps are operational
- Maintaining housekeeping standards at the North and South Pumping Stations
- Scan and transfer reports daily of pump data to FPL Environmental at 11:59 PM or shortly thereafter each day. Transfer electronic copy to WO 40379504 EDMS file.

#### Contact information

|                |                |                  |              |
|----------------|----------------|------------------|--------------|
| Control Room   | -              | Shift Manager    | X6492        |
| Control Room   | -              | Emergency        | X4444        |
| Rory Rahming   | -              | Environmental    | 786-427-7437 |
| Nan Sweeney    | (Dayshift) -   | Pump Coordinator | 570-241-8135 |
| Willis Nettles | (Night Shift)- | Pump Coordinator | 772-473-1041 |

|                                                   |                                                                            |
|---------------------------------------------------|----------------------------------------------------------------------------|
| Coastal and Wetlands Resource Section             | 305-372-6575                                                               |
| FWC                                               | <a href="mailto:ImperiledSpecies@myFWC.com">ImperiledSpecies@myFWC.com</a> |
| FWC Hotline                                       | 888-404-3922                                                               |
| U.S. Fish and Wildlife Service                    | 772-562-3909                                                               |
| State of Florida Bureau Archaeological Research   | 850-245-6444                                                               |
| Miami-Dade County Office of Historic Preservation | 305-375-3412                                                               |

DERM Coastal and Wetlands Resource Compliance Supervisor  
 John Ricisak [ricisj@miamidade.gov](mailto:ricisj@miamidade.gov)  
 DERM Coastal and Wetlands Resource Permitting Supervisor  
 Christine Hopps [hoppsc@miamidade.gov](mailto:hoppsc@miamidade.gov)

#### SFWMD:

Executive Director, Len Lindahl, [LLindahl@sfwmd.gov](mailto:LLindahl@sfwmd.gov)  
 Water Resources Division Director, Terri Bates, [tbates@sfwmd.gov](mailto:tbates@sfwmd.gov)  
 Water Resources Hydrologist, Simon Sunderland, P.G, [ssunder@sfwmd.gov](mailto:ssunder@sfwmd.gov)  
 Bureau Chief, Maria Clemente, P.E. at [mclement@sfwmd.gov](mailto:mclement@sfwmd.gov)

## ATTACHMENT 2

### North Pump Operator Roles and Responsibilities

The AWE North Pump Operator is responsible for the safe operation of the three submersible pumps and associated variable speed drives and instrumentation. All pumping evolutions will be at the direction of the Pump Coordinator except if an emergency shutdown is required. All events or equipment issues will be documented in the enclosed Event Log and will be immediately reported to the Pump Coordinator. Responsibilities of the Pump Operator include but are not limited to the following items:

- Maintaining the safe operation of the North Pumping Stations and performing and logging required periodic maintenance/lubrication of pump equipment
- Ensuring Pump Stations remain in compliance with the:
  - Class 1 Construction permit, permit # CLI-2014-0312
  - South Florida Water Management District Emergency Order, SFWMD No. 2015-034-DAO-WU/ROW/ERP
  - Army Corps of Engineer Permit, SAJ-2014-02451 (NWP/GP-MLC)
- Communicating any issues with pump performance or compliance with the permit to the Pump Coordinator
- Performing Emergency Response activities to address an evacuation order or a fuel/oil spill
- Ensure spill response equipment maintained in good condition
- Maintaining Pump flows at the direction of the Pump Coordinator
- Perform Manatee and crocodile watch when pumps are running (Polarized lenses are required for Manatee watch)
- Perform all designated routines, readings and recordings throughout the shift including maintaining housekeeping standards at the North Pumping Station
- Maintain a 24 hour Event Log of daily activities, 00:00hrs through 11:59hrs (to be part of the submittal)
- Maintaining 24/7 coverage of the North Pump Station when the North Pumps are operational

**ATTACHMENT 2**

### North Pump Operator Roles and Responsibilities

Document on the log sheet periodic maintenance/lubrication and pump level changes.  
Every hour Check out the system for the following and document on the hourly log sheet:

- i) External leakage
- ii) Signs of shore erosion
- iii) Excessive pipe movement
- iv) Intake Grate fouling or debris/wildlife approach
- v) Erratic pump motor amperage ( $> \pm 10\%$  of benchmark full flow value)

Page 1 of \_

Date / Time

# EVENT LOG BOOK

[illegible]

## ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET |                         |                           |                         | Month                                   | Day                                     | Year                 |
|----------------------------------------|-------------------------|---------------------------|-------------------------|-----------------------------------------|-----------------------------------------|----------------------|
| Time                                   | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal<br>Level<br>North of 344 St | South Canal<br>Level<br>South of 344 St | System<br>Checks Sat |
| 00:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 00:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 1:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 1:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 2:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 2:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 3:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 3:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 4:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 4:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 5:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 5:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 6:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 6:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 7:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 7:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 8:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 8:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 9:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 9:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 10:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 10:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 11:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 11:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 12:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 12:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |

PUMP OPERATOR

Date

VERIFIED BY PUMP  
COORDINATOR

DATE

## ATTACHMENT 2

## NORTH PUMPING STATION HOURLY LOG SHEET

Month

Day

Year

| Time  | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal Level<br>North of 344 St | South Canal Level<br>South of 344 St | System Checks<br>Sat |
|-------|-------------------------|---------------------------|-------------------------|--------------------------------------|--------------------------------------|----------------------|
| 13:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 13:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 14:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 14:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 15:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 15:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 16:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 16:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 17:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 17:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 18:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 18:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 19:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 19:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 20:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 20:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 21:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 21:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 22:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 22:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 23:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 23:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 24:00 | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 24:00 | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |

PUMP  
OPERATOR

Date

VERIFIED BY PUMP  
COORDINATOR

Date

### **ATTACHMENT 3**

#### **South Pump Operator Roles and Responsibilities**

The AWE South Pump Operator is responsible for the safe operation of the two 36" axial pumps. All pumping evolutions will be at the direction of the Pump Coordinator except if an emergency shutdown is required. All events or equipment issues will be documented in the enclosed Event Log and will be immediately reported to the Pump Coordinator.

Responsibilities of the Pump Operator include but are not limited to the following items:

- Maintaining the safe operation of the South Pumping Station and performing and logging required periodic maintenance/lubrication of pump equipment
- Ensuring Pump Stations remain in compliance with the:
  - Class 1 Construction permit, permit # CLI-2014-0312
  - South Florida Water Management District Emergency Order, SFWMD No. 2015-034-DAO-WU/ROW/ERP
  - Army Corps of Engineer Permit, SAJ-2014-02451 (NWP/GP-MLC)
- Communicating any issues with pump performance or compliance with the permit to the Pump Coordinator
- Performing Emergency Response activities to address an evacuation order
- Monitor the transformer containment pad daily and drain the water when it rains
- Maintaining Pump flows at the direction of the Pump Coordinator
- Perform Manatee and crocodile watch when pumps are running (Polarized lenses are required for Manatee watch)
- Perform all designated routines, readings and recordings throughout the shift including maintaining housekeeping standards at the South Pumping Station
- Maintain a 24 hour Event Log of daily activities, 00:00hrs through 11:59hrs (to be part of the submittal)
- Maintaining 24/7 coverage of the South Pump Station when the South Pumps are operational

**ATTACHMENT 3**

Rev 5, 8/21/15

### South Pump Operator Roles and Responsibilities

Document on the log sheet periodic maintenance/lubrication and pump level changes.  
Every hour check out the system for the following and document on the hourly log sheet:

- i) External leakage
- ii) Signs of shore erosion
- iii) Excessive pipe movement
- iv) Intake Grass or debris/wildlife approach
- v) Erratic pump motor amperage ( $> \pm 10\%$  of benchmark full flow value)

Page 1 of \_

# EVENT LOG BOOK

Date / Time

[illegible]

9/5 Pump Run

Rev 5, 8/21/15

ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET            |                        |                        |  |                   |                      |
|------------------------------------------------|------------------------|------------------------|--|-------------------|----------------------|
| Month <u>09</u> Day <u>06</u> Year <u>2015</u> |                        |                        |  |                   |                      |
| Time                                           | North Pump<br>(107944) | South Pump<br>(107939) |  | South Canal Level | System<br>Checks Sat |
| 00:00                                          | Flow: 32419            | Flow: 30379            |  | 0.70              | ✓                    |
| 00:00                                          | Total: 16632496        | Total: 27387432        |  | 0.70              | ✓                    |
| 1:00                                           | Flow: 32217            | Flow: 30410            |  | 0.70              | ✓                    |
| 1:00                                           | Total: 18848357        | Total: 29414279        |  | 0.70              | ✓                    |
| 2:00                                           | Flow: 32480            | Flow: 30505            |  | 0.70              | ✓                    |
| 2:00                                           | Total: 20611818        | Total: 30985623        |  | 0.70              | ✓                    |
| 3:00                                           | Flow: 32330            | Flow: 30446            |  | 0.70              | ✓                    |
| 3:00                                           | Total: 22423740        | Total: 32783400        |  | 0.70              | ✓                    |
| 4:00                                           | Flow: 32969            | Flow: 31198            |  | 0.70              | ✓                    |
| 4:00                                           | Total: 24424084        | Total: 34663745        |  | 0.70              | ✓                    |
| 5:00                                           | Flow: 33735            | Flow: 31883            |  | 0.70              | ✓                    |
| 5:00                                           | Total: 26305919        | Total: 36436616        |  | 0.70              | ✓                    |
| 6:00                                           | Flow: 33748            | Flow: 31785            |  | .7                | ✓                    |
| 6:00                                           | Total: 296432663       | Total: 38452250        |  |                   | ✓                    |
| 7:00                                           | Flow: 33767            | Flow: 31893            |  | .7                | ✓                    |
| 7:00                                           | Total: 30457745        | Total: 40358751        |  |                   | ✓                    |
| 8:00                                           | Flow: 33573            | Flow: 31431            |  | .7                | ✓                    |
| 8:00                                           | Total: 32424677        | Total: 42275015        |  |                   | ✓                    |
| 9:00                                           | Flow: 35139            | Flow: 33341            |  | .7                | ✓                    |
| 9:00                                           | Total: 34297344        | Total: 44109144        |  |                   | ✓                    |
| 10:00                                          | Flow: 35478            | Flow: 32721            |  | .7                | ✓                    |
| 10:00                                          | Total: 36443221        | Total: 46006494        |  |                   | ✓                    |
| 11:00                                          | Flow: 34855            | Flow: 32031            |  | .7                | ✓                    |
| 11:00                                          | Total: 38546696        | Total: 47749341        |  |                   | ✓                    |

PUMP OPERATOR Kyle Carr / ELSC  
CASH  
 Date: 09/06/15

VERIFIED BY PUMP  
 COORDINATOR M. Sweeney  
 Date: 9/6/15

7/5 Pump Run

ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET            |                         |                        |  |                   |                      |
|------------------------------------------------|-------------------------|------------------------|--|-------------------|----------------------|
| Month <u>09</u> Day <u>05</u> Year <u>2015</u> |                         |                        |  |                   |                      |
| Time                                           | North Pump<br>(107944)  | South Pump<br>(107939) |  | South Canal Level | System<br>Checks Sat |
| 12:00                                          | Flow: <u>32675</u>      | Flow: <u>30175</u>     |  | <u>.7</u>         | ✓                    |
| 12:00                                          | Total: <u>399381364</u> | Total: <u>49045212</u> |  | <u>.72</u>        | ✓                    |
| 13:00                                          | Flow:                   | Flow:                  |  |                   |                      |
| 13:00                                          | Total:                  | Total:                 |  |                   |                      |
| 14:00                                          | Flow:                   | Flow:                  |  |                   |                      |
| 14:00                                          | Total:                  | Total:                 |  |                   |                      |
| 15:00                                          | Flow:                   | Flow:                  |  |                   |                      |
| 15:00                                          | Total:                  | Total:                 |  |                   |                      |
| 16:00                                          | Flow:                   | Flow:                  |  |                   |                      |
| 16:00                                          | Total:                  | Total:                 |  |                   |                      |
| 17:00                                          | Flow:                   | Flow:                  |  |                   |                      |
| 17:00                                          | Total:                  | Total:                 |  |                   |                      |
| 18:00                                          | Flow:                   | Flow:                  |  |                   |                      |
| 18:00                                          | Total:                  | Total:                 |  |                   |                      |
| 19:00                                          | Flow:                   | Flow:                  |  |                   |                      |
| 19:00                                          | Total:                  | Total:                 |  |                   |                      |
| 20:00                                          | Flow:                   | Flow:                  |  |                   |                      |
| 20:00                                          | Total:                  | Total:                 |  |                   |                      |
| <del>21:00</del><br>21:41                      | Flow: <u>30543</u>      | Flow: <u>29914</u>     |  | <u>0.70</u>       | ✓                    |
| <del>21:00</del><br>21:41                      | Total: <u>12284898</u>  | Total: <u>23254396</u> |  | <u>0.70</u>       | ✓                    |
| 22:00                                          | Flow: <u>31302</u>      | Flow: <u>29534</u>     |  | <u>0.70</u>       | ✓                    |
| 22:00                                          | Total: <u>12815902</u>  | Total: <u>23742223</u> |  | <u>0.70</u>       | ✓                    |
| 23:00                                          | Flow: <u>31416</u>      | Flow: <u>29696</u>     |  | <u>0.70</u>       | ✓                    |
| 23:00                                          | Total: <u>14125046</u>  | Total: <u>25534081</u> |  | <u>0.70</u>       | ✓                    |
| 24:00                                          | Flow:                   | Flow:                  |  |                   |                      |
| 24:00                                          | Total:                  | Total:                 |  |                   |                      |

PUMP OPERATOR

Kyle Carr

Date

09/05/15

VERIFIED BY PUMP  
COORDINATOR

N. Sweeney Date: 9/6/15

INJECTION OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Alan Sweeney Date: 8/7/15  
Approved: A. F. Ingram Date: 8/8/15

9/6 Pump  
Run  
North Station

Debbie Cooper  
Pikie Ingram

# 9/6 Pump Run

## ATTACHMENT 1 Pump Coordinator Roles and Responsibilities

| Date / Time | EVENT LOG BOOK                                     | Page 1 of 2 |
|-------------|----------------------------------------------------|-------------|
| 9/06/18:00  | We did a pre-job brief, checked out both           |             |
| 1           | pump stations. No power to either one. 4           |             |
| 1           | EPL T&D trucks on site troubleshooting             |             |
| 1           | Power line down on evacuation route road.          |             |
| 1           | Website is down since 17:00 called SFWMD.          |             |
| 1           | They are emailing discharges.                      |             |
| 9/6/21:38   | Total Discharge reached 517 ac. ft.                |             |
| 1           | Couldn't run pump. Waiting for power to be         |             |
| 1           | restored.                                          |             |
| 9/06/22:02  | Power was restored.                                |             |
| 9/06/22:05  | Started North Pumps. 60 Hz                         |             |
| 9/06/22:10  | Started South Pumps 57 Hz                          |             |
| 9/06/23:00  | North station pumped 3,540,790 gal. 22:05-23:00    |             |
| 9/06/23:00  | South station pumped 3,225,250 gal. 22:10-23:00    |             |
| 9/07/00:00  | North station pumped 3,919,650 gal.                |             |
| 9/07/00:00  | South station pumped 3,937,080 gal.                |             |
| 9/07/01:00  | South station pumped 3,950,250 gal.                |             |
| 9/07/01:00  | North station pumped 3,972,120 gal.                |             |
| 9/07/01:15  | stopped east pump backflushed started to pcc again |             |
| 9/07/02:00  | North station pumped 3,872,070 gal.                |             |
| 9/07/02:00  | South station pumped 3,927,480 gal.                |             |
| 9/07/03:00  | South station pumped 3,930,600 gal.                |             |
| 9/07/03:00  | North station pumped 3,870,000 gal.                |             |
| 9/07/04:00  | North station pumped 3,887,940 gal.                |             |
| 9/07/04:00  | South station pumped 3,928,260 gal.                |             |
| 9/07/05:00  | South station pumped 3,933,360 gal.                |             |
| 9/07/05:00  | North station pumped 3,890,280 gal.                |             |
| 9/07/06:00  | North station pumped 3,878,580 gal.                |             |
| 9/07/06:00  | South station pumped 3,942,570 gal.                |             |
| 9/07/07:00  | South station pumped 3,943,020 gal.                |             |
| 9/07/07:00  | North station pumped 3,881,760 gal.                |             |
| 9/07/07:20  | Dialed down South Pumped from 57 Hertz to 56 Hertz |             |
| 9/07/08:00  | North station pumped 3,877,020                     |             |
| 9/07/08:00  | South station pumped 3,888,960                     |             |
| 9/07/09:00  | South station pumped 3,895,440                     |             |
| 9/07/09:00  | North station pumped 3,862,350                     |             |

9/6 Pump Run

## ATTACHMENT 1

## Pump Coordinator Roles and Responsibilities

[illegible]

9-6-15

Rev 5, 8/21/15

## ATTACHMENT 2

### North Pump Operator Roles and Responsibilities

Document on the log sheet periodic maintenance/lubrication and pump level changes.

Every hour Check out the system for the following and document on the hourly log sheet:

- i) External leakage
- ii) Signs of shore erosion
- iii) Excessive pipe movement
- iv) Intake Grate fouling or debris/wildlife approach
- v) Erratic pump motor amperage ( $> \pm 10\%$  of benchmark full flow value)

| Date / Time      | EVENT LOG BOOK                                                                                                                                                                                                                                                                                                                                       | Page 1 of _ |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 9-6 DC 2100-2100 | South station power out @ beginning of shift as well as north station. North station power restored. Power company on site attempting to restore power to south station. Web site to monitor water levels down with pump coordinator being advised of levels via e-mail.                                                                             |             |
| 12205            | Power restored to south pump station 504 a/f reached. North pumps started. South pump station 5 mins later @ 2210. Readings Center flow/totalizer as normal. All other readings within normal limits. Amps on all pumps are appropriate.                                                                                                             |             |
| 12300            | no changes noted.                                                                                                                                                                                                                                                                                                                                    |             |
| 9-7 10000        | East pump noted with decrease water flow from P-tube. Contact pump coordinator Willis Nettles. East pump shut down, allowed to back flow water. East pump restarted with water flow from P-tube noted flowing normally @ this time. No changes noted in East pump AMPS with decreased flow from P-tube. East pump running appropriately @ this time. |             |
| 10100            | no changes noted.                                                                                                                                                                                                                                                                                                                                    |             |
| 10115            | East pump noted again with decreased water flow from P-tube. Notify pump coordinator Willis Nettles. East pump stopped & allowed to back flow again. Water flow from P-tube noted flowing normally @ this time.                                                                                                                                      |             |
| 10200            | no changes noted.                                                                                                                                                                                                                                                                                                                                    |             |
| 10300            | no changes noted.                                                                                                                                                                                                                                                                                                                                    |             |
| 10400            | no changes noted.                                                                                                                                                                                                                                                                                                                                    |             |
| 10500            | no changes noted.                                                                                                                                                                                                                                                                                                                                    |             |

Bryan Ingram  
9-7-15

Rev 5, 8/21/15

ATTACHMENT 2

North Pump Operator Roles and Responsibilities

Date / Time

EVENT LOG BOOK

Page 2 of \_

9/7/2000 - Check for wildlife, grass and debris. Did a  
walk-through with Debbie and found out what  
happened last night with if the electric going  
out.  
10700 - Check all pumps and P tubes are working good  
Check for wildlife, grass and debris  
10800 - Check for wildlife, debris and grass  
Everything sounds good on the pumps  
10900 - Check pumps, wildlife, grass and debris  
110:00 - Check for wildlife, debris and grass  
East                      Center                      West  
60.00 Hz              60.00 Hz              60.00 Hz  
66.1 A              66.4 A              66.7 A  
11:00 - Check all pumps, wildlife, debris and grass  
9/7 11:56 At 11:47 we start back flushing pumps turning  
them on and off repeatedly three times  
comparative for two minutes each time. Final turn  
off at 11:56

Bryan Ingram  
Rev 5, 8/21/15

ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET |                         |                           |                         |                                         |                                         |                      |
|----------------------------------------|-------------------------|---------------------------|-------------------------|-----------------------------------------|-----------------------------------------|----------------------|
|                                        |                         |                           | Month                   | Day                                     | Year                                    |                      |
| Time                                   | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal<br>Level<br>North of 344 St | South Canal<br>Level<br>South of 344 St | System<br>Checks Sat |
| 00:00                                  | Flow:<br>24115          | Flow:<br>ERROR            | Flow:<br>19974          | .40                                     | .85                                     | ✓                    |
| 00:00                                  | Total:<br>68098360      | Total:<br>ERROR           | Total:<br>70790140      |                                         |                                         |                      |
| 1:00                                   | Flow:<br>22516          | Flow:<br>ERROR            | Flow:<br>20399          | .50                                     | .85                                     | ✓                    |
| 1:00                                   | Total:<br>69353294      | Total:<br>ERROR           | Total:<br>71904042      |                                         |                                         |                      |
| 2:00                                   | Flow:<br>22742          | Flow:<br>ERROR            | Flow:<br>20014          | .60                                     | .85                                     | ✓                    |
| 2:00                                   | Total:<br>70682380      | Total:<br>ERROR           | Total:<br>73118375      |                                         |                                         |                      |
| 3:00                                   | Flow:<br>22488          | Flow:<br>ERROR            | Flow:<br>20156          | .70                                     | .85                                     | ✓                    |
| 3:00                                   | Total:<br>72035620      | Total:<br>ERROR           | Total:<br>74337057      |                                         |                                         |                      |
| 4:00                                   | Flow:<br>22806          | Flow:<br>ERROR            | Flow:<br>20548          | .75                                     | .85                                     | ✓                    |
| 4:00                                   | Total:<br>73405611      | Total:<br>ERROR           | Total:<br>75558918      |                                         |                                         |                      |
| 5:00                                   | Flow:<br>22702          | Flow:<br>ERROR            | Flow:<br>20220          | .75                                     | .85                                     | ✓                    |
| 5:00                                   | Total:<br>74741122      | Total:<br>ERROR           | Total:<br>76758465      |                                         |                                         |                      |
| 6:00                                   | Flow:<br>22510          | Flow:<br>ERROR            | Flow:<br>20453          | .7                                      | .85                                     | ✓                    |
| 6:00                                   | Total:<br>76049145      | Total:<br>ERROR           | Total:<br>77935320      |                                         |                                         |                      |
| 7:00                                   | Flow:<br>22576          | Flow:<br>ERROR            | Flow:<br>20453          | .7                                      | .85                                     | ✓                    |
| 7:00                                   | Total:<br>77389060      | Total:<br>ERROR           | Total:<br>79143525      |                                         |                                         |                      |
| 8:00                                   | Flow:<br>22499          | Flow:<br>ERROR            | Flow:<br>20244          | .65                                     | .85                                     | ✓                    |
| 8:00                                   | Total:<br>78741701      | Total:<br>ERROR           | Total:<br>80363268      |                                         |                                         |                      |
| 9:00                                   | Flow:<br>22548          | Flow:<br>ERROR            | Flow:<br>20054          | .65                                     | .85                                     | ✓                    |
| 9:00                                   | Total:<br>80079251      | Total:<br>ERROR           | Total:<br>81563989      |                                         |                                         |                      |
| 10:00                                  | Flow:<br>22174          | Flow:<br>ERROR            | Flow:<br>20383          | .55                                     | .85                                     | ✓                    |
| 10:00                                  | Total:<br>81417791      | Total:<br>ERROR           | Total:<br>82776130      |                                         |                                         |                      |
| 11:00                                  | Flow:<br>22336          | Flow:<br>ERROR            | Flow:<br>19974          | .45                                     | .85                                     | ✓                    |
| 11:00                                  | Total:<br>82771619      | Total:<br>ERROR           | Total:<br>83988341      |                                         |                                         |                      |
| 12:00                                  | Flow:<br>22888          | Flow:<br>ERROR            | Flow:<br>20032          | .4                                      | .85                                     | ✓                    |
| 12:00                                  | Total:<br>83965759      | Total:<br>ERROR           | Total:<br>84886701      |                                         |                                         |                      |

PUMP OPERATOR: [Signature]  
Date: 9-7-15

VERIFIED BY PUMP  
COORDINATOR: [Signature]  
Date: 9-7-15

## ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET |                         |                           |                         |                                      |                                      |                      | Month | Day | Year |
|----------------------------------------|-------------------------|---------------------------|-------------------------|--------------------------------------|--------------------------------------|----------------------|-------|-----|------|
| Time                                   | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal Level<br>North of 344 St | South Canal Level<br>South of 344 St | System Checks<br>Sat |       |     |      |
| 13:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |       |     |      |
| 13:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |
| 14:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |       |     |      |
| 14:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |
| 15:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |       |     |      |
| 15:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |
| 16:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |       |     |      |
| 16:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |
| 17:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |       |     |      |
| 17:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |
| 18:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |       |     |      |
| 18:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |
| 19:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |       |     |      |
| 19:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |
| 20:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |       |     |      |
| 20:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |
| 21:00                                  | Flow:                   | Flow:                     | Flow:                   | .45                                  | .80                                  | ✓                    |       |     |      |
| 21:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |
| 22:00                                  | Flow:                   | Flow:                     | Flow:                   | .45                                  | .80                                  | ✓                    |       |     |      |
| 22:05                                  | 22228                   | ERROR                     | 19962                   |                                      |                                      |                      |       |     |      |
| 22:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |
|                                        | 65880794                | ERROR                     | 68445752                |                                      |                                      |                      |       |     |      |
| 23:00                                  | Flow:                   | Flow:                     | Flow:                   | .45                                  | .80                                  | ✓                    |       |     |      |
|                                        | 22964                   | ERROR                     | 20202                   |                                      |                                      |                      |       |     |      |
| 23:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |
|                                        | 66692716                | ERROR                     | 69503145                |                                      |                                      |                      |       |     |      |
| 24:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |       |     |      |
| 24:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |       |     |      |

|               |                     |
|---------------|---------------------|
| PUMP OPERATOR | <u>Wanda Cooper</u> |
| Date          | <u>9-16-15</u>      |

|                              |                 |
|------------------------------|-----------------|
| VERIFIED BY PUMP COORDINATOR | <u>N. Swann</u> |
| Date                         | <u>9/17</u>     |

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET |                        |                        | Month | Day               | Year                 |
|-------------------------------------|------------------------|------------------------|-------|-------------------|----------------------|
| Time                                | North Pump<br>(107944) | South Pump<br>(107939) |       | South Canal Level | System<br>Checks Sat |
| 00:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 00:00                               | Total:                 | Total:                 |       |                   |                      |
| 1:00                                | Flow:                  | Flow:                  |       |                   |                      |
| 1:00                                | Total:                 | Total:                 |       |                   |                      |
| 2:00                                | Flow:                  | Flow:                  |       |                   |                      |
| 2:00                                | Total:                 | Total:                 |       |                   |                      |
| 3:00                                | Flow:                  | Flow:                  |       |                   |                      |
| 3:00                                | Total:                 | Total:                 |       |                   |                      |
| 4:00                                | Flow:                  | Flow:                  |       |                   |                      |
| 4:00                                | Total:                 | Total:                 |       |                   |                      |
| 5:00                                | Flow:                  | Flow:                  |       |                   |                      |
| 5:00                                | Total:                 | Total:                 |       |                   |                      |
| 6:00                                | Flow:                  | Flow:                  |       |                   |                      |
| 6:00                                | Total:                 | Total:                 |       |                   |                      |
| 7:00                                | Flow:                  | Flow:                  |       |                   |                      |
| 7:00                                | Total:                 | Total:                 |       |                   |                      |
| 8:00                                | Flow:                  | Flow:                  |       |                   |                      |
| 8:00                                | Total:                 | Total:                 |       |                   |                      |
| 9:00                                | Flow:                  | Flow:                  |       |                   |                      |
| 9:00                                | Total:                 | Total:                 |       |                   |                      |
| 10:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 10:00                               | Total:                 | Total:                 |       |                   |                      |
| 11:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 11:00                               | Total:                 | Total:                 |       |                   |                      |

PUMP OPERATOR \_\_\_\_\_

Date: \_\_\_\_\_

VERIFIED BY PUMP  
COORDINATOR \_\_\_\_\_

Date: \_\_\_\_\_

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET |                        |                        | Month | Day               | Year                 |
|-------------------------------------|------------------------|------------------------|-------|-------------------|----------------------|
| Time                                | North Pump<br>(107944) | South Pump<br>(107939) |       | South Canal Level | System<br>Checks Sat |
| 12:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 12:00                               | Total:                 | Total:                 |       |                   |                      |
| 13:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 13:00                               | Total:                 | Total:                 |       |                   |                      |
| 14:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 14:00                               | Total:                 | Total:                 |       |                   |                      |
| 15:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 15:00                               | Total:                 | Total:                 |       |                   |                      |
| 16:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 16:00                               | Total:                 | Total:                 |       |                   |                      |
| 17:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 17:00                               | Total:                 | Total:                 |       |                   |                      |
| 18:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 18:00                               | Total:                 | Total:                 |       |                   |                      |
| 19:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 19:00                               | Total:                 | Total:                 |       |                   |                      |
| 20:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 20:00                               | Total:                 | Total:                 |       |                   |                      |
| 21:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 21:00                               | Total:                 | Total:                 |       |                   |                      |
| 22:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 22:00                               | Total:                 | Total:                 |       |                   |                      |
| 23:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 23:00                               | Total:                 | Total:                 |       |                   |                      |
| 24:00                               | Flow:                  | Flow:                  |       |                   |                      |
| 24:00                               | Total:                 | Total:                 |       |                   |                      |

PUMP OPERATOR

Date

VERIFIED BY PUMP  
COORDINATOR

Date:

Kyle Carr

09/06/13

Pump Run 9/6

Rev 5, 8/21/15

ON OF L31 CANAL WATER INTO THE CANAL COOLING SYSTEM PROCEDURE

Revision No. 05

Author: Alan Sweeney Date: 8/21/15

Approved: [Signature] Date: 8/18/15

OE's: Kyle Carr  
Eric Cash

South Station

9/6 Pump Run

## ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET |                         |                           |                         | Month                                   | Day                                     | Year                 |
|----------------------------------------|-------------------------|---------------------------|-------------------------|-----------------------------------------|-----------------------------------------|----------------------|
| Time                                   | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal<br>Level<br>North of 344 St | South Canal<br>Level<br>South of 344 St | System<br>Checks Sat |
| 00:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 00:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 1:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 1:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 2:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 2:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 3:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 3:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 4:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 4:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 5:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 5:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 6:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 6:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 7:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 7:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 8:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 8:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 9:00                                   | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 9:00                                   | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 10:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 10:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |
| 11:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 11:00                                  | Total:                  |                           |                         |                                         |                                         |                      |
| 12:00                                  | Flow:                   | Flow:                     | Flow:                   |                                         |                                         |                      |
| 12:00                                  | Total:                  | Total:                    | Total:                  |                                         |                                         |                      |

PUMP OPERATOR

Date

VERIFIED BY PUMP  
COORDINATOR

Date

## ATTACHMENT 2

| NORTH PUMPING STATION HOURLY LOG SHEET |                         |                           |                         | Month                                | Day                                  | Year                 |
|----------------------------------------|-------------------------|---------------------------|-------------------------|--------------------------------------|--------------------------------------|----------------------|
| Time                                   | East Pump<br>(107942)#3 | Center Pump<br>(107941)#2 | West Pump<br>(107940)#1 | North Canal Level<br>North of 344 St | South Canal Level<br>South of 344 St | System Checks<br>Sat |
| 13:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 13:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 14:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 14:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 15:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 15:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 16:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 16:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 17:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 17:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 18:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 18:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 19:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 19:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 20:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 20:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 21:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 21:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 22:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 22:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 23:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 23:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |
| 24:00                                  | Flow:                   | Flow:                     | Flow:                   |                                      |                                      |                      |
| 24:00                                  | Total:                  | Total:                    | Total:                  |                                      |                                      |                      |

PUMP  
OPERATOR \_\_\_\_\_

Date \_\_\_\_\_

VERIFIED BY PUMP  
COORDINATOR \_\_\_\_\_

Date: \_\_\_\_\_

- i) External leakage
- ii) Signs of shore erosion
- iii) Excessive pipe movement
- iv) Intake Grass or debris/wildlife approach
- v) Erratic pump motor amperage ( $> \pm 10\%$  of benchmark full flow value)

[illegible]

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET            |                        |                        |  |                   |                      |
|------------------------------------------------|------------------------|------------------------|--|-------------------|----------------------|
| Month <u>09</u> Day <u>07</u> Year <u>2015</u> |                        |                        |  |                   |                      |
| Time                                           | North Pump<br>(107944) | South Pump<br>(107939) |  | South Canal Level | System<br>Checks Sat |
| 00:00                                          | Flow: 34975            | Flow: 31351            |  | 0.80              | ✓                    |
| 00:00                                          | Total: 43887299        | Total: 52442150        |  | 0.80              | ✓                    |
| 1:00                                           | Flow: 33915            | Flow: 31434            |  | 0.80              | ✓                    |
| 1:00                                           | Total: 45013141        | Total: 54325520        |  | 0.80              | ✓                    |
| 2:00                                           | Flow: 33955            | Flow: 31612            |  | 0.80              | ✓                    |
| 2:00                                           | Total: 47937899        | Total: 56229780        |  | 0.80              | ✓                    |
| 3:00                                           | Flow: 33970            | Flow: 31483            |  | 0.80              | ✓                    |
| 3:00                                           | Total: 49931669        | Total: 58103947        |  | 0.80              | ✓                    |
| 4:00                                           | Flow: 38900            | Flow: 31589            |  | 0.80              | ✓                    |
| 4:00                                           | Total: 51915714        | Total: 59973857        |  | 0.80              | ✓                    |
| 5:00                                           | Flow: 34035            | Flow: 31588            |  | 0.80              | ✓                    |
| 5:00                                           | Total: 53890744        | Total: 61861017        |  | 0.80              | ✓                    |
| 6:00                                           | Flow: 34191            | Flow: 31605            |  | .8                | ✓                    |
| 6:00                                           | Total: 559127107       | Total: 65161330        |  |                   | ✓                    |
| 7:00                                           | Flow: 34197            | Flow: 31441            |  | .8                | ✓                    |
| 7:00                                           | Total: 58040827        | Total: 65102272        |  |                   | ✓                    |
| 8:00                                           | Flow: 33060            | Flow: 30333            |  | .8                | ✓                    |
| 8:00                                           | Total: 6002226         | Total: 67509057        |  |                   | ✓                    |
| 9:00                                           | Flow: 34060            | Flow: 31795            |  | .8                | ✓                    |
| 9:00                                           | Total: 61995269        | Total: 69326426        |  |                   | ✓                    |
| 10:00                                          | Flow: 33532            | Flow: 31982            |  | .8                | ✓                    |
| 10:00                                          | Total: 64095230        | Total: 71315158        |  |                   | ✓                    |
| 11:00                                          | Flow: 32194            | Flow: 30412            |  | .8                |                      |
| 11:00                                          | Total: 660109619       | Total: 73116430        |  |                   |                      |

PUMP OPERATOR Kyle Carr / ELC  
CASH  
 Date 09/07/15

VERIFIED BY PUMP  
 COORDINATOR Andrea Goggin  
 Date: 9/7/15

## ATTACHMENT 3

| SOUTH PUMP STATION HOURLY LOG SHEET          |                        |                        |  |                   |                      |
|----------------------------------------------|------------------------|------------------------|--|-------------------|----------------------|
| Month <u>9</u> Day <u>6</u> Year <u>2015</u> |                        |                        |  |                   |                      |
| Time                                         | North Pump<br>(107944) | South Pump<br>(107939) |  | South Canal Level | System<br>Checks Sat |
| 12:00                                        | Flow: <u>35370</u>     | Flow: <u>32118</u>     |  | <u>.4</u>         | ✓                    |
| 12:00                                        | Total: <u>67410209</u> | Total: <u>74287027</u> |  | <u>.83</u>        | ✓                    |
| 13:00                                        | Flow:                  | Flow:                  |  |                   |                      |
| 13:00                                        | Total:                 | Total:                 |  |                   |                      |
| 14:00                                        | Flow:                  | Flow:                  |  |                   |                      |
| 14:00                                        | Total:                 | Total:                 |  |                   |                      |
| 15:00                                        | Flow:                  | Flow:                  |  |                   |                      |
| 15:00                                        | Total:                 | Total:                 |  |                   |                      |
| 16:00                                        | Flow:                  | Flow:                  |  |                   |                      |
| 16:00                                        | Total:                 | Total:                 |  |                   |                      |
| 17:00                                        | Flow:                  | Flow:                  |  |                   |                      |
| 17:00                                        | Total:                 | Total:                 |  |                   |                      |
| 18:00                                        | Flow:                  | Flow:                  |  |                   |                      |
| 18:00                                        | Total:                 | Total:                 |  |                   |                      |
| 19:00                                        | Flow:                  | Flow:                  |  |                   |                      |
| 19:00                                        | Total:                 | Total:                 |  |                   |                      |
| 20:00                                        | Flow:                  | Flow:                  |  |                   |                      |
| 20:00                                        | Total:                 | Total:                 |  |                   |                      |
| 21:00                                        | Flow:                  | Flow:                  |  |                   |                      |
| 21:00                                        | Total:                 | Total:                 |  |                   |                      |
| <del>22:00</del><br>22:10                    | Flow: <u>33564</u>     | Flow: <u>30536</u>     |  | <u>0.80</u>       | ✓                    |
| <del>22:00</del><br>22:10                    | Total: <u>40183616</u> | Total: <u>49226745</u> |  | <u>0.80</u>       | ✓                    |
| 23:00                                        | Flow: <u>34090</u>     | Flow: <u>30820</u>     |  | <u>0.80</u>       | ✓                    |
| 23:00                                        | Total: <u>41825746</u> | Total: <u>50547783</u> |  | <u>0.80</u>       | ✓                    |
| 24:00                                        | Flow:                  | Flow:                  |  |                   |                      |
| 24:00                                        | Total:                 | Total:                 |  |                   |                      |

PUMP OPERATOR Kyle Carr / ERIC  
CASH  
 Date 09/07/15

VERIFIED BY PUMP  
 COORDINATOR ACooper Date: 9/7/15