

# Hydro Logic, Inc.

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December 30, 2016

Mr. Gary Spackman, Director  
Idaho Department of Water Resources  
322 East Front Street  
PO Box 83720-0098

RECEIVED

DEC 30 2016

DEPARTMENT OF  
WATER RESOURCES

Subject: Spring Valley Second Half of 2016 Ground Water Monitoring Data Submittal

Dear Gary:

On behalf of my client, M3 Companies, LLC, and the City of Eagle, Idaho, I write to submit the Spring Valley (formally M3 Eagle) water level monitoring data for the second half of 2016 that is being hand-delivered to your office Thursday December 30, 2016 on compact disc. The submitted data consist of hand-measured and digitally recorded pressure-transducer/data-logger measurements acquired between 6/01/2016 and 11/30/2016. The Idaho Department of Water Resources (IDWR) issued a Second Amended Final Order for Water Right No. 63-32573 in the name of the City of Eagle on March 9, 2012. One of the conditions of approval for the water right requires the permittee to monitor the ground water resource in the area according to a monitoring and reporting plan developed by Hydro Logic, Inc.

Hydro Logic, Inc. is under contract with the M3 Companies, LLC under agreement with the City of Eagle, to perform the Spring Valley ground water monitoring and reporting requirements. Pursuant to the monitoring plan approved by the Department, Hydro Logic, Inc. submits these raw uncorrected data in compliance with the water right requirement. To date, there has been no municipal ground water production diverted under Permit No. 63-32573 so there are no water diversion volumes to report. Ground water has been pumped during hydraulic testing of newly completed wells. Until such time that ground water production begins under this permit, there are also no requirements for data synthesis or an interpretive report of the data.

Two new supply wells were constructed and pump-tested in 2016 following the administrative rules at IDWR and protocols established by IDEQ for Public Drinking Water System wells. Digital copies of the reports and data submitted to IDEQ for these supply wells have been included in this submittal to fulfill the requirements of the monitoring plan approved by IDWR.

In one monitored well during the last monitoring period, Test Well #3 Zone 4, the pressure-transducer/data-logger instrument (SN U0005) response appeared to be drifting since installation on 6/8/2015 12:00 until being replaced on 9/7/2016 10:00 with a new instrument (SN T3124). The maximum drift before being replaced was ~0.24 feet. Because of the relatively minor amount of drift it took us a while to notice/confirm this instrument was drifting. This occurrence is referenced in the data file.

Please consider this e-mail as your transmittal letter.

Respectfully,

Kurt Newbry

c: Bill Brownlee, M3 Eagle, LLC  
Ken Acuff, City of Eagle  
Ed Squires, Hydro Logic, Inc.



# M3 Eagle Water Levels - Hand measurements

Hydro Logic Inc.

| M3 Eagle Test Well #1   |                                                |                                      |                | M3 Eagle Test Well #2   |                                                |                |
|-------------------------|------------------------------------------------|--------------------------------------|----------------|-------------------------|------------------------------------------------|----------------|
| Time<br>(24 hour clock) | measuring point (mp) = 3.2' above ground level |                                      | Comments       | Time<br>(24 hour clock) | measuring point (mp) = 3.2' above ground level |                |
|                         | Zone #3<br>Water Level<br>(feet bmp)           | Zone #5<br>Water Level<br>(feet bmp) |                |                         | Zone #1<br>Water Level<br>(feet bmp)           | Comments       |
| 07/16/2016 08:43        | 112.51                                         | 94.04                                | T.W. 750' tape | 07/16/2016 09:47        | 220.79                                         | T.W. 750' tape |
| 08/22/2016 10:19        | 115.18                                         | 94.8                                 | T.W. 750' tape | 08/22/2016 13:28        | 220.83                                         | T.W. 750' tape |
| 09/07/2016 09:26        | 113.96                                         | 95.12                                | T.W. 750' tape | 09/07/2016 11:33        | 221.07                                         | T.W. 750' tape |
| 09/27/2016 12:41        | 112.06                                         | 94.67                                | T.W. 750' tape | 09/27/2016 14:27        | 220.89                                         | T.W. 750' tape |
| 10/19/2016 10:41        | 104.23                                         | 94.62                                | T.W. 750' tape | 10/19/2016 12:59        | 221.49                                         | T.W. 750' tape |
| 11/30/2016 10:09        | 96.18                                          | 92.99                                | T.W. 750' tape | 11/30/2016 13:07        | 221.07                                         | T.W. 750' tape |

Note: All digitally acquired data are in Mountain Standard Time and are not adjusted for Daylight Savings Time. Dates and times for hand-measured data are reported as non-DST.

### M3 Eagle Test Well #3

measuring point (mp) = 3.5' above ground level

| Time<br>(24 hour clock) | Zone #4<br>Water Level<br>(feet bmp) | Comments |
|-------------------------|--------------------------------------|----------|
|-------------------------|--------------------------------------|----------|

|                  |        |                |
|------------------|--------|----------------|
| 07/16/2016 08:16 | 267.19 | T.W. 750' tape |
| 08/22/2016 09:35 | 267.74 | T.W. 750' tape |
| 09/07/2016 08:53 | 267.98 | T.W. 750' tape |
| 09/27/2016 12:09 | 267.87 | T.W. 750' tape |
| 10/19/2016 10:15 | 268.04 | T.W. 750' tape |
| 11/30/2016 9:29  | 267.11 | T.W. 750' tape |

### M3 Eagle Test Well #4

measuring point (mp) was 4.2' above ground level now (after 8/3/2016) 4.57' above ground level

| Time<br>(24 hour clock) | Zone #2<br>Water Level<br>(feet bmp) | Zone #3<br>Water Level<br>(feet bmp) | Zone #4<br>Water Level<br>(feet bmp) | Comments |
|-------------------------|--------------------------------------|--------------------------------------|--------------------------------------|----------|
|-------------------------|--------------------------------------|--------------------------------------|--------------------------------------|----------|

|                  |        |        |     |                                                      |
|------------------|--------|--------|-----|------------------------------------------------------|
| 07/16/2016 10:44 | 134.71 | 137.82 | dry | T.W. 750' tape                                       |
| 08/22/2016 12:17 | 134.69 | 138.18 | dry | T.W. 750' tape, New mp=4.57' agl, adjusted to old mp |
| 09/07/2016 10:28 | 134.76 | 138.40 | dry | T.W. 750' tape, New mp=4.57' agl, adjusted to old mp |
| 09/27/2016 13:28 | 134.47 | 138.22 | dry | T.W. 750' tape, New mp=4.57' agl, adjusted to old mp |
| 10/19/2016 11:38 | 134.27 | 138.54 | dry | T.W. 750' tape, New mp=4.57' agl, adjusted to old mp |
| 11/30/2016 11:34 | 133.31 | 137.78 | dry | T.W. 750' tape, New mp=4.57' agl, adjusted to old mp |

### M3 Eagle S.V.R. Well #7

measuring point (mp) = 5.5' above ground level

| Time<br>(24 hour clock) | Zone #1<br>Water Level<br>(feet bmp) | Comments       |
|-------------------------|--------------------------------------|----------------|
| 07/16/2016 09:28        | 169.18                               | T.W. 750' tape |
| 08/22/2016 13:03        | 169.42                               | T.W. 750' tape |
| 09/07/2016 11:11        | 169.64                               | T.W. 750' tape |
| 09/27/2016 14:16        | 169.42                               | T.W. 750' tape |
| 10/19/2016 12:34        | 169.81                               | T.W. 750' tape |
| 11/30/2016 12:39        | 169.10                               | T.W. 750' tape |

### M3 Eagle S.V.R. Well #9

measuring point (mp) = 1.8' above ground level

| Time<br>(24 hour clock) | Water Level<br>(feet bmp) | Comments       |
|-------------------------|---------------------------|----------------|
| 07/14/2016 14:37        | 200.54                    | T.W. 750' tape |
| 08/22/2016 14:42        | 200.74                    | T.W. 750' tape |
| 09/07/2016 12:24        | 201.08                    | T.W. 750' tape |
| 09/27/2016 14:53        | 200.9                     | T.W. 750' tape |
| 10/19/2016 13:57        | 201.54                    | T.W. 750' tape |
| 11/30/2016 14:20        | 200.96                    | T.W. 750' tape |