



State of Idaho

## DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

October 13, 2009

C. L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Interim Director

JAMES W MECHAM  
428 N MAIN ST  
TWIN FALLS ID 83301

RE: Permit No. 37-7861

Dear Mr. Mecham:

I am reviewing the field exam report connected to the permit referenced above so we can issue a license for the uses developed. In my final review of this file I have noticed that you have not fully complied with a condition of approval of the permit. Permit 37-7861 condition 1c (1) states,

"Measuring devices of a type approved by the Department shall be permanently installed and maintained at the point of diversion and the point of effluent discharge."

Although the field examiner found a measuring device on your point of diversion, he did not find one on the point of effluent discharge and we must resolve this issue before a license can be issued. Idaho Administrative Code IDAPA 37.03.02 Beneficial Use Examination Rules 035.02.d states,

"Field reports which indicate that a measuring device, required as a condition of approval of the permit, has not been installed, are not acceptable and will be returned to the examiner unless the measuring device requirement has been formally waived by the director."

Returning the field exam report to the examiner so many years after the fact is not likely to move this permit any closer to licensure. However, we do have other options available for resolving this issue. You could: 1) submit documentation that you have complied with this condition and the examiner was not informed of the compliance at the time of the exam; 2) install the measuring device, as required on your permit; or 3) send the IDWR a written request for removal of this requirement from your permit. If you request removal of the requirement, please attach documentation which shows that you have discussed the need for measuring devices with the watermaster of Water District 130 and that she has no objection to the removal of the measuring device requirement.

The watermaster in Water District 130 is Cindy Yenter, who is also a hydrologist in IDWR's Southern Region office. You may contact her at the following:

Cindy Yenter  
c/o IDWR Southern Regional Office  
1341 Fillmore Street, Suite 200  
Twin Falls, ID 83301-3380  
Phone: (208) 736-3033  
Fax: (208) 736-3037

I will withhold further action on this permit for thirty (30) days from the date of this letter in order to allow you time to respond. If the IDWR does not receive a response from you within this time period we will assume you are not interested in pursuing a water right license and will take action allowed by Idaho Statute 42-219(8) which states in part,

"In the event that the department shall find that the applicant has not fully complied with the law and the conditions of permit, it may issue a license for that portion of the use which is in accordance with the permit, or may refuse issuance of a license and void the permit."

If you have any questions, please call me at 208-287-4946, or email me at [michele.edl@idwr.idaho.gov](mailto:michele.edl@idwr.idaho.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Michele Edl", written over a horizontal line.

Michele Edl  
Associate Engineer

c: Cindy Yenter

10/1/2009

## HYDROPOWER ANALYSIS SHEET

James Mechem Hydropower Plant near Hagerman

| Static Head -----    |       | 140 Feet  | Nominal Pipe Size----- |       | Turbine Type ----- |        | unknown Pelton |        | 0.6666667   |            | 0.5 D in FEET  |      | Hazen-Williams for headloss                                                    |  |
|----------------------|-------|-----------|------------------------|-------|--------------------|--------|----------------|--------|-------------|------------|----------------|------|--------------------------------------------------------------------------------|--|
| Penstock Length----- |       | 2725 Feet | Feet/Sec               |       | Feet/Sec           |        | Feet/Sec       |        | 8" Penstock |            | 2150 L in FEET |      | HF (ft) = (3.022xVel <sup>1.85xL</sup> )/(C <sup>1.85xD<sup>4.86</sup></sup> ) |  |
| FLOW                 | FLOW  | BYPASS    | POWER                  | SPILL | VELOCITY6          | TOTAL  | NET            | POWER  | WEEKLY      | HEAD       | HEAD           | LOSS | Mecham penstock                                                                |  |
| CFS                  | GPM   | CFS       | CFS                    | CFS   | Feet/Sec           | EFFICY | HEAD           | WATTS  | WATT-HRS    | LOSS       | LOSS           | LOSS | diameter(in length(ft))                                                        |  |
| 0                    | 0     | 0         | 0                      | 0     | 0.00               | 0      | 140.00         | 0.00   | 0           | 0          | 0              | 0    | 8                                                                              |  |
| 0                    | 0     | 0         | 0                      | 0     | 0.00               | 0      | 140.00         | 0.00   | 0           | 0          | 0              | 0    | 575                                                                            |  |
| 0                    | 0     | 0         | 0                      | 0     | 0.00               | 0      | 140.00         | 0.00   | 0           | 0          | 0              | 0    | 2150                                                                           |  |
| 0                    | 0     | 0         | 0                      | 0     | 0.00               | 0      | 140.00         | 0.00   | 0           | 0          | 0              | 0    | 2725 total                                                                     |  |
| 0                    | 0     | 0         | 0                      | 0     | 0.00               | 0      | 140.00         | 0.00   | 0           | 0          | 0              | 0    |                                                                                |  |
| 0                    | 0     | 0         | 0                      | 0     | 0.00               | 0      | 140.00         | 0.00   | 0           | 0          | 0              | 0    |                                                                                |  |
| 0.120                | 53.9  | 0.0       | 0.120                  | 0.0   | 0.34               | 15     | 138.48         | 211.06 | 39.258      | 0.09       | 1.43           |      |                                                                                |  |
| 0.140                | 62.8  | 0.0       | 0.140                  | 0.0   | 0.40               | 15     | 137.98         | 245.35 | 45.635      | 0.12       | 1.90           |      |                                                                                |  |
| 0.160                | 71.8  | 0.0       | 0.160                  | 0.0   | 0.46               | 15     | 137.41         | 279.25 | 51.940      | 0.16       | 2.43           |      |                                                                                |  |
| 0.180                | 80.8  | 0.0       | 0.180                  | 0.0   | 0.52               | 15     | 136.78         | 312.71 | 58.165      | 0.20       | 3.02           |      |                                                                                |  |
| 0.200                | 89.8  | 0.0       | 0.200                  | 0.0   | 0.57               | 15     | 136.09         | 345.70 | 64.300      | 0.24       | 3.67           |      |                                                                                |  |
| 0.220                | 98.7  | 0.0       | 0.220                  | 0.0   | 0.63               | 15     | 135.34         | 378.16 | 70.339      | 0.29       | 4.37           |      |                                                                                |  |
| 0.240                | 107.7 | 0.0       | 0.240                  | 0.0   | 0.69               | 15     | 134.52         | 410.06 | 76.271      | 0.34       | 5.14           |      |                                                                                |  |
| 0.260                | 116.7 | 0.0       | 0.260                  | 0.0   | 0.74               | 15     | 133.65         | 441.34 | 82.090      | 0.39       | 5.96           |      |                                                                                |  |
| 0.280                | 125.7 | 0.0       | 0.280                  | 0.0   | 0.80               | 15     | 132.71         | 471.98 | 87.787      | 0.45       | 6.83           |      |                                                                                |  |
| 0.290                | 130.2 | 0.0       | 0.290                  | 0.0   | 0.83               | 15     | 132.23         | 487.03 | 90.588      | 0.48       | 7.29           |      |                                                                                |  |
| 0.300                | 134.6 | 0.0       | 0.300                  | 0.0   | 0.86               | 15     | 131.72         | 501.91 | 93.355      | 0.51       | 7.77           |      |                                                                                |  |
| 0.320                | 143.6 | 0.0       | 0.320                  | 0.0   | 0.92               | 15     | 130.67         | 531.10 | 98.785      | 0.58       | 8.75           |      |                                                                                |  |
| 0.340                | 152.6 | 0.0       | 0.340                  | 0.0   | 0.97               | 15     | 129.57         | 559.52 | 104.070     | 0.64       | 9.79           |      |                                                                                |  |
| 0.360                | 161.6 | 0.0       | 0.360                  | 0.0   | 1.03               | 15     | 128.40         | 587.11 | 109.202     | 0.72       | 10.88          |      |                                                                                |  |
| 0.380                | 170.6 | 0.0       | 0.380                  | 0.0   | 1.09               | 15     | 127.18         | 613.84 | 114.174     | 0.79       | 12.02          |      |                                                                                |  |
| 0.400                | 179.5 | 0.0       | 0.400                  | 0.0   | 1.15               | 15     | 125.91         | 639.66 | 118.977     | 0.87       | 13.22          |      |                                                                                |  |
| 0.420                | 188.5 | 0.0       | 0.420                  | 0.0   | 1.20               | 15     | 124.58         | 664.54 | 123.605     | 0.95       | 14.47          |      |                                                                                |  |
| 0.440                | 197.5 | 0.0       | 0.440                  | 0.0   | 1.26               | 15     | 123.19         | 688.44 | 128.050     | 1.04       | 15.77          |      |                                                                                |  |
| 0.460                | 206.5 | 0.0       | 0.460                  | 0.0   | 1.32               | 15     | 121.75         | 711.32 | 132.305     | 1.13       | 17.12          |      |                                                                                |  |
| 0.480                | 215.4 | 0.0       | 0.480                  | 0.0   | 1.38               | 15     | 120.25         | 733.13 | 136.362     | 1.22       | 18.53          |      |                                                                                |  |
| 0.500                | 224.4 | 0.0       | 0.500                  | 0.0   | 1.43               | 15     | 118.70         | 753.84 | 140.214     | 1.32       | 19.98          |      |                                                                                |  |
| 0.520                | 233.4 | 0.0       | 0.520                  | 0.0   | 1.49               | 15     | 117.10         | 773.41 | 143.854     | 1.42       | 21.48          |      |                                                                                |  |
| 0.540                | 242.4 | 0.0       | 0.540                  | 0.0   | 1.55               | 15     | 115.45         | 791.80 | 147.274     | 1.52       | 23.04          |      |                                                                                |  |
| 0.560                | 251.3 | 0.0       | 0.560                  | 0.0   | 1.60               | 15     | 113.74         | 808.97 | 150.468     | 1.62       | 24.64          |      |                                                                                |  |
| 0.580                | 260.3 | 0.0       | 0.580                  | 0.0   | 1.66               | 15     | 111.98         | 824.88 | 153.428     | 1.73       | 26.29          |      |                                                                                |  |
| 0.600                | 269.3 | 0.0       | 0.600                  | 0.0   | 1.72               | 15     | 110.16         | 839.51 | 156.148     | 1.84       | 27.99          |      |                                                                                |  |
| 0.620                | 278.3 | 0.0       | 0.620                  | 0.0   | 1.78               | 15     | 108.30         | 852.79 | 158.620     | 1.96       | 29.74          |      |                                                                                |  |
| 0.640                | 287.3 | 0.0       | 0.640                  | 0.0   | 1.83               | 15     | 106.38         | 864.71 | 160.837     | 2.08       | 31.54          |      |                                                                                |  |
| 0.660                | 296.2 | 0.0       | 0.660                  | 0.0   | 1.89               | 15     | 104.41         | 875.23 | 162.792     | 2.20       | 33.39          |      |                                                                                |  |
| 0.680                | 305.2 | 0.0       | 0.680                  | 0.0   | 1.95               | 15     | 102.39         | 884.29 | 164.478     | 2.32       | 35.29          |      |                                                                                |  |
| 0.700                | 314.2 | 0.0       | 0.700                  | 0.0   | 2.01               | 15     | 100.32         | 891.88 | 165.889     | 2.45       | 37.23          |      |                                                                                |  |
| 0.720                | 323.2 | 0.0       | 0.720                  | 0.0   | 2.06               | 15     | 98.19          | 897.95 | 167.018     | 2.58       | 39.22          |      |                                                                                |  |
| 0.740                | 332.5 | 0.0       | 0.740                  | 0.0   | 2.12               | 15     | 96.02          | 902.46 | 167.857     | 2.72       | 41.26          |      |                                                                                |  |
| 0.760                | 341.1 | 0.0       | 0.760                  | 0.0   | 2.18               | 15     | 93.79          | 905.38 | 168.400     | 2.86       | 43.35          |      |                                                                                |  |
| 0.780                | 350.1 | 0.0       | 0.780                  | 0.0   | 2.23               | 15     | 91.52          | 906.67 | 168.640     | 3.00       | 45.48          |      |                                                                                |  |
| 0.800                | 359.1 | 0.0       | 0.800                  | 0.0   | 2.29               | 15     | 89.19          | 906.30 | 168.571     | 3.14       | 47.67          |      |                                                                                |  |
| 0.820                | 368.0 | 0.0       | 0.820                  | 0.0   | 2.35               | 15     | 86.82          | 904.22 | 168.185     | 3.29       | 49.89          |      |                                                                                |  |
| 0.840                | 377.0 | 0.0       | 0.840                  | 0.0   | 2.41               | 15     | 84.40          | 900.41 | 167.476     | 3.44       | 52.17          |      |                                                                                |  |
| 0.860                | 386.0 | 0.0       | 0.860                  | 0.0   | 2.46               | 15     | 81.92          | 894.82 | 166.437     | 3.59       | 54.49          |      |                                                                                |  |
| 0.880                | 395.0 | 0.0       | 0.880                  | 0.0   | 2.52               | 15     | 79.40          | 887.43 | 165.062     | 3.75       | 56.86          |      |                                                                                |  |
| 0                    | 0     | 0         | 0                      | 0     | 0.00               | 15     | 140.00         | 0.00   | 0           | 0.00       | 0.00           | 0.00 |                                                                                |  |
| 0                    | 0     | 0         | 0                      | 0     | 0.00               | 15     | 140.00         | 0.00   | 0           | 0.00       | 0.00           | 0.00 |                                                                                |  |
| 0                    | 0     | 0         | 0                      | 0     | 0.00               | 15     | 140.00         | 0.00   | 0           | 0.00       | 0.00           | 0.00 |                                                                                |  |
| TOTAL KWH-           |       |           |                        |       |                    |        |                |        |             | TOTAL KWH- |                |      |                                                                                |  |
| PEAK WATTS -         |       |           |                        |       |                    |        |                |        |             | TOTAL KWH- |                |      |                                                                                |  |

summer decree



Stoddard Springs WMIS # 410241

Upper Waddington WMIS # 410243

Lower Waddington WMIS #410245

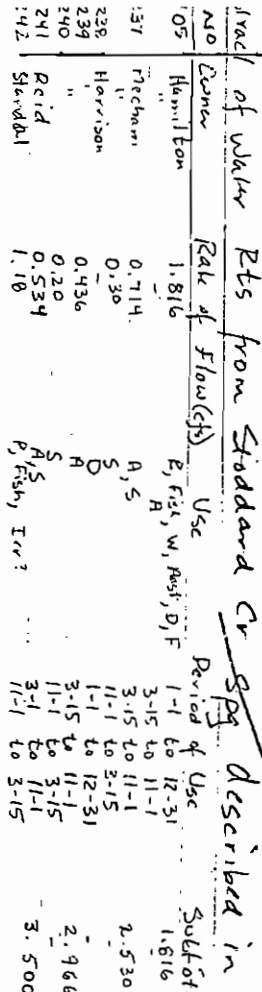
Hamilton Pipeline collection box

Mecham measuring device and split off

Stoddard Creek  
Springs & Diversions

1-6-83  
J. Standa

1.5  
SUN 05 1996



| Spec | of water | Rts from          | Standard Cr                                    | Sp            | described in |
|------|----------|-------------------|------------------------------------------------|---------------|--------------|
| NO   | Cumra    | Rate of Flow (Ct) | Use                                            | Period of Use | Subtöt       |
| 05   | Hamilton | 1.816             | E, F <sub>12</sub> , W, P <sub>12</sub> , D, F | 1-1 to 12-31  | 1.816        |
| 137  | "        | 0.714             | A, S                                           | 3-15 to 11-1  | 2.530        |
| 238  | Mecham   | 0.30              | S                                              | 11-1 to 3-15  |              |
| 239  | Harrison | 0.436             | S                                              | 1-1 to 3-15   | 2.966        |
| 240  | "        | 0.20              | D                                              | 3-15 to 11-1  |              |
| 241  | "        | 0.534             | S                                              | 11-1 to 3-15  |              |
| 242  | Reid     | 1.10              | A, S                                           | 3-1 to 11-1   | 3.500        |
|      | Stoddard |                   | P <sub>12</sub> , Fish, Irr?                   | to 3-15       |              |



**370410242 STODDARD SPRING PIPELINE-MECHAM**  
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2002 TO OCTOBER 2003  
MEAN VALUES

| DAY   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 0.41 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 2     | 0.41 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 3     | 0.41 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 4     | 0.41 | 0.52 | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 5     | 0.41 | 0.52 | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 6     | 0.41 | 0.52 | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 7     | 0.41 | 0.52 | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 8     | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 9     | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 10    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 11    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  |
| 12    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  |
| 13    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  |
| 14    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  |
| 15    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  |
| 16    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  |
| 17    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 18    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 19    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 20    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 21    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 22    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.48 | 0.5  | 0.5  | 0.5  |
| 23    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 24    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 25    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 26    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 27    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 28    | 0.52 | 0.52 | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 29    | 0.52 | 0.52 | 0.5  | ---  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 30    | 0.52 | 0.52 | 0.5  | ---  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| 31    | ---  | 0.52 | 0.5  | ---  | 0.5  | ---  | 0.5  | ---  | 0.5  | 0.5  | ---  | 0.5  |
| TOTAL | 14.8 | 16.1 | 15.5 | 14.0 | 15.5 | 14.3 | 15.5 | 15.0 | 15.5 | 15.5 | 14.4 | 15.5 |
| MEAN  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| MIN   | 0.4  | 0.5  | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  | 0.5  | 0.5  | 0.5  | 0.4  | 0.5  |
| MAX   | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  | 0.5  |
| AC-FT | 29.4 | 31.9 | 30.7 | 27.8 | 30.7 | 28.4 | 30.7 | 29.8 | 30.7 | 30.7 | 28.6 | 30.7 |

IRRIGATION YEAR 2003 TOTAL CFS:181.6 TOTAL AC-FT: 360