

## MEMORANDUM

**Date:** February 13, 2013  
**To:** Water Right File 37-8526  
**From:** cpalmer  
**Re:** Licensing Memo

---

**PD and Source:** This application was initially advertized as surface and ground water. The permit holder then amended the right to read ground water only. During the protest hearing, the permit holder made it clear that the amended application sought the appropriation of surface water, or water defined as diffuse water and did not seek the appropriation of ground water (finding of fact #9 of proposed memorandum decision and order dated 5/17/1990). However, per finding of fact #21 of the order, the water table beneath the POU drops to levels of 7ft or more mid to late season. Since the ponds are excavated to 2 ft, one could conclude that every other time of the year the water table is shallow enough to be intercepted by the ponds. In addition, in the beneficial use report, the field examiner made the comment that the ponds intercept the water table and that the source of water for this right is ground water. Since there is so much ambiguity regarding the source of the ponds, Shelley Keen and Carter Fritschle have advised me to use "pond" tributary to "sinks" as the source for this right.

Each excavated pond will be a point of diversion. If a pond covers more than one QQ, a point of diversion will be located in each QQ. There are 19 ponds total and 20 points of diversion.

**POU:** The place of use consists of 19 ponds within the Camas Prairie Centennial Marsh Wildlife Management Area. The field examiner did not recommend that the ponds in Section 9 be authorized under this right. However, I believe that all the ponds at the management area were excavated in the same manner and are similar in size, source, purpose. I recommend that they be included in the licensure of this right; there is volume available to include the 14.4 af in this right.

**OVERLAPS:** In addition to the ponds, there are overlapping ground water rights that provide for the live flow and storage of ground water into the ponds: 37-8493, 37-8511, 37-8513, and 37-8514.

**Volume:** The 19 ponds can hold up to 158 af according to the field examiners calculations. No seepage will be accounted for in the volume calculations as the water table is high enough so not much seepage should be occurring. Evaporation for the ponds was found to be ~172 af per year. The license will be limited to the permitted volume of 220 acre feet.

**Amendment Required?** Yes, the POD and POU need to be modified to add the ponds in Sec. 9.

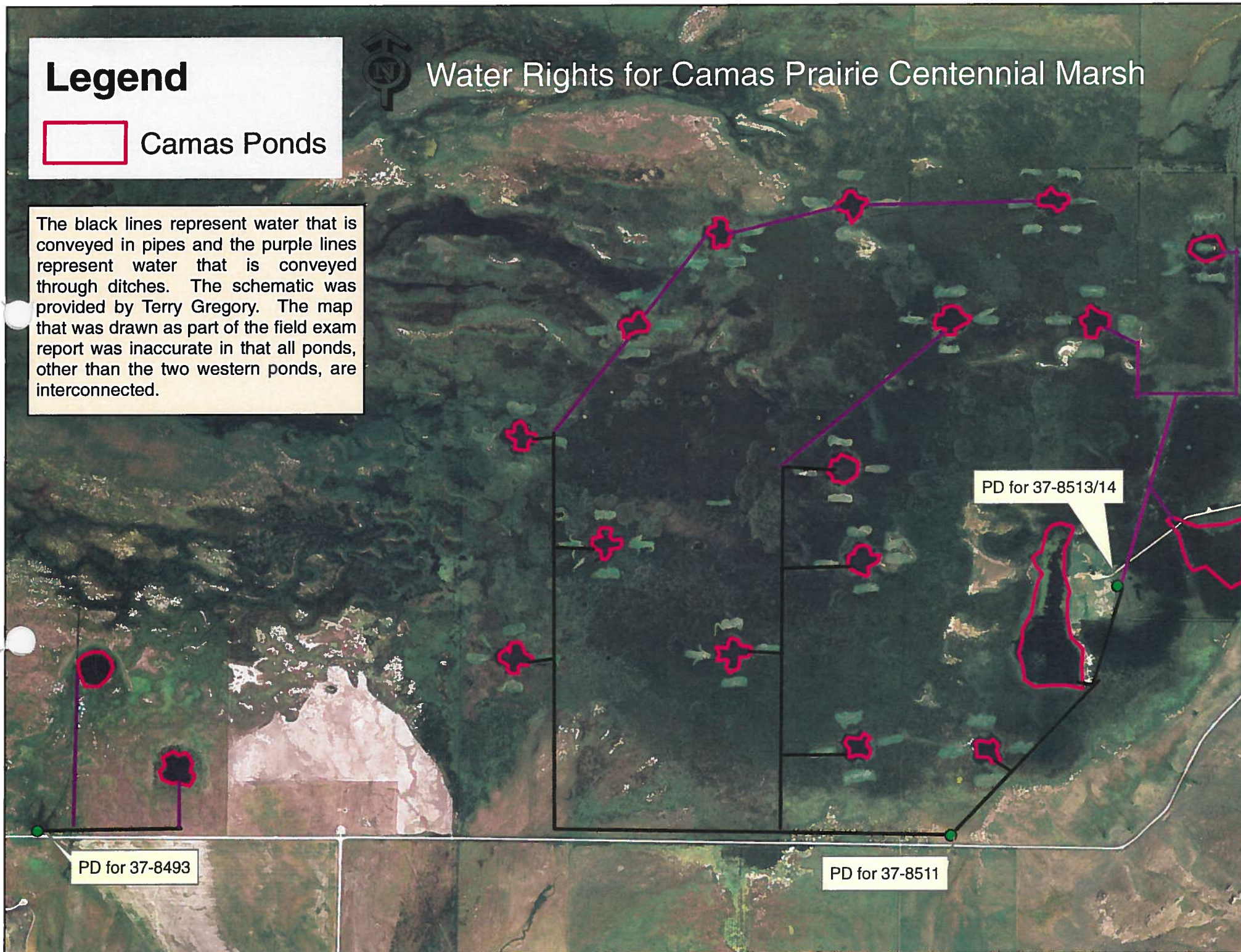
# Legend

 Camas Ponds

The black lines represent water that is conveyed in pipes and the purple lines represent water that is conveyed through ditches. The schematic was provided by Terry Gregory. The map that was drawn as part of the field exam report was inaccurate in that all ponds, other than the two western ponds, are interconnected.



## Water Rights for Camas Prairie Centennial Marsh



# ET<sub>Idaho</sub> 2009: Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison at kimberly dot uidaho dot edu Copyright 2010, University of Idaho.

*Year-round  
calculation*

## Fairfield (NWS --103108 )

Statistics based on thirty

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

| Open water - shallow systems (ponds, streams)  |        |       |      |      |      |      |      |      |      |      |       |       |                                                                                                  |                                 |
|------------------------------------------------|--------|-------|------|------|------|------|------|------|------|------|-------|-------|--------------------------------------------------------------------------------------------------|---------------------------------|
| Precipitation Deficit (Click here for a graph) |        |       |      |      |      |      |      |      |      |      |       |       |                                                                                                  |                                 |
|                                                | Jan    | Feb   | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov   | Dec   | Growing Season <sup>a</sup>                                                                      | Non Growing Season <sup>b</sup> |
| Mean                                           | mm/day |       |      |      |      |      |      |      |      |      |       |       | mm                                                                                               |                                 |
| Monthly <sup>c</sup>                           | -1.43  | -0.78 | 0.42 | 1.82 | 2.92 | 3.63 | 4.31 | 3.73 | 2.55 | 1.76 | -0.83 | -1.35 | 515                                                                                              | 0                               |
| 15-Day Moving Average <sup>d</sup>             | -1.61  | -1.10 | 0.39 | 1.90 | 2.85 | 3.64 | 4.41 | 3.64 | 2.43 | 1.73 | -0.89 | -1.39 | $= (646.16 \text{ ab } / 25.4) / 12$ $= 2.126 / \text{acre}$ $\times 42 \text{ acres}$ $172.248$ |                                 |
| 7-Day Moving Average <sup>e</sup>              | -1.54  | -0.93 | 0.41 | 1.85 | 2.88 | 3.61 | 4.38 | 3.72 | 2.47 | 1.72 | -0.90 | -1.39 |                                                                                                  |                                 |
| 3-Day Moving Average <sup>f</sup>              | -1.46  | -0.78 | 0.42 | 1.84 | 2.91 | 3.63 | 4.32 | 3.73 | 2.52 | 1.75 | -0.86 | -1.34 |                                                                                                  |                                 |
| Standard Deviation                             | mm/day |       |      |      |      |      |      |      |      |      |       |       | mm                                                                                               |                                 |
| Monthly                                        | 1.92   | 1.19  | 1.17 | 0.86 | 1.50 | 0.97 | 0.97 | 1.42 | 1.13 | 1.13 | 1.37  | 2.22  | 127                                                                                              | 0                               |
| 15-Day Moving Average                          | 2.16   | 1.77  | 1.16 | 1.07 | 1.60 | 1.32 | 0.84 | 1.44 | 1.49 | 1.10 | 1.69  | 2.22  |                                                                                                  |                                 |
| 7-Day Moving Average                           | 2.80   | 2.48  | 1.52 | 1.60 | 1.99 | 1.84 | 1.24 | 1.63 | 1.85 | 1.62 | 2.19  | 2.86  |                                                                                                  |                                 |
| 3-Day Moving Average                           | 3.66   | 3.05  | 2.14 | 2.23 | 2.51 | 2.40 | 1.89 | 2.04 | 2.38 | 2.06 | 2.97  | 3.58  |                                                                                                  |                                 |
| 20% Exceedance                                 | mm/day |       |      |      |      |      |      |      |      |      |       |       | mm                                                                                               |                                 |
| Monthly                                        | -0.37  | 0.22  | 0.83 | 2.47 | 3.55 | 4.42 | 4.87 | 4.43 | 3.47 | 2.44 | 0.08  | -0.36 | 594                                                                                              | 0                               |
| 15-Day Moving Average                          | 0.59   | 0.93  | 1.67 | 3.34 | 4.65 | 5.15 | 5.33 | 4.77 | 4.00 | 2.94 | 1.06  | 0.52  |                                                                                                  |                                 |
| 7-Day Moving Average                           | 0.87   | 1.29  | 1.97 | 3.90 | 5.31 | 5.61 | 5.52 | 5.09 | 4.43 | 3.47 | 1.62  | 0.78  |                                                                                                  |                                 |
| 3-Day Moving Average                           | 0.97   | 1.50  | 2.47 | 4.77 | 5.76 | 6.05 | 5.82 | 5.36 | 4.68 | 3.94 | 2.03  | 1.04  |                                                                                                  |                                 |