



THE DYER PARTNERSHIP  
ENGINEERS & PLANNERS, INC.

1330 Teakwood Avenue  
Coos Bay, Oregon 97420  
Ph: (541) 269-0732  
Fx: (541) 269-2044  
www.dyerpart.com

---

## F A X T R A N S M I T T A L

---

DATE May 19, 2011.  
TO John McClintock  
  
FAX NO. (541) 547-3362  
COPY TO  
FAX NO.  
SENDER Michael Erickson, PE PLS CWRE  
NO. OF PAGES 3  
*please contact us if you do not receive all pages*

---

PROJECT NAME Miscellaneous Services - Water  
PROJECT NO. 141.00D

---

### COMMENTS

John, the information that Bill F. provided you did not seem to be applicable to the City since they already have an adopted water curtailment plan that was approved by water resources. Not sure why that was sent.

I have attached summary sheet outlining the findings of the water flow measurements and comments suggesting the city contact WRD for information related to installing a permanent measurement device. Since they have a number of these stations throughout the state, they should have a proven and acceptable device that they can provide information as well as cost to the City.

I also reviewed the information sent by Jim Adler. This seems to concentrate on the water quality issues that were noted in one low flow period. He also discusses the installation of raw water impoundment structure to carry the city thru low stream flow periods, however I have not reviewed that in much detail since I anticipate that the impoundment would have to be fairly large and costs would likely be significant in comparison with the costs to utilize the proposed point of diversion. The 2001 Water Master Plan does discuss options for raw water impoundment, but I have not looked in depth at these options to see how these would play out as far as resolving the city's raw water needs.

---

**1. *Summary of Flow Monitoring Results***

Attached is a summary chart of the flow monitoring that was conducted near the City's proposed point of diversion for the years 2009 and 2010 as well as the Yachats Water Quality Monitoring Group based on the monthly averages for the years 2001, 2005, 2006, 2007 and 2008. This chart shows both the average flow for each month as well as the low flow amounts that occurred during the years noted.

It is apparent that the conditions stated in Item 11 of the stipulated final order are the controlling parameters since the majority of the stream flows are below the levels needed to satisfy the junior instream water right (Cert. 73161). Presuming that this source of water would be more critical to the city during the lower stream flow months, the average monthly flows were lower than the junior instream water right except for June.

This provision would allow the City to divert 0.50 cfs as long as the other conditions of the final order are also complied with.

**2. *Installation of Permanent Recording Device***

As part of the stipulated final order, the City will need to install a permanent recording device which needs to comply with WRD and ODFW. We recommend that the City contact both of these departments to determine the type of equipment needed for this device. They may be able to provide a relative cost for the installation of this device so that the city can allocate funding for the next fiscal year to start this process. This might prove to be a worthwhile investment in the interim until the city has developed the point of diversion since this will provide a continuous flow monitoring station.

Year	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
Summer 2001						69.46	29.7	20.24	15.0	13.2		
Summer 2005							47.7	24.5	16.5	22.2		
Summer 2006						54.0	30.0	16.8	14.5	12.9		
Summer 2007						38.8	24.2	19.4	14.5	61.8		
Summer 2008						98.11	38.0	25.6	20.6	24.4		
2009											70.9	80.0
2010	142.2	147.4	135.4	102.0	72.3	50.2	35				133.1	133.2
Average	142.2	147.4	135.4	102.0	72.3	65.1	33.9	21.3	16.2	26.9	102.0	106.6
Minimum	142.2	147.4	135.4	102	72.3	41.7	23.3	15.5	13.4	11.7	70.9	80.0
Senior Instream Rights	65	65	65	65	40	30	15	15	15	15	70	70
Junior Instream Rights	132	132	132	132	63	42	40.2	25.6	24.9	49.1	132	132

(Note that stip. final order has flow changes at mid-month for July and October. This charts uses the lower amount.)

