

**BEFORE THE WATER RESOURCES DEPARTMENT
OF THE
STATE OF OREGON**

In the Matter of the Water Management)	NOTIFICATION AND FINAL ORDER
and Conservation Plan for Klamath)	APPROVING WATER MANAGEMENT
Drainage District , Klamath County,)	AND CONSERVATION PLAN
Oregon)	

Authority

OAR Chapter 690, Division 086, establishes the process and criteria for approving water management and conservation plans required under the conditions of permits, permit extensions and other orders of the Department.

Findings of Fact

1. The Klamath Drainage District submitted a Water Management and Conservation Plan to the Department in April of 2003.
2. Public notice was published May 13, 2003 as required under OAR Chapter 690, Division 086. No comments were received during the 30 day comment period. On October 28, 2003 comments by the Bureau of Reclamation were received.
3. The Department reviewed the draft plan and on October 20, 2004 provided comments and asked for clarification. On February 28, 2005 the District supplied a revised plan based on the Department's comments. The Department outlined a work plan that included the items identified by the District and by the Department. If completed, would allow the Klamath Drainage District to satisfy the requirements of OAR 690-086-0140. The Department notified the District of the areas needing additional work on March 24, 2005.
4. The Klamath Drainage District agreed on March 29, 2005 to complete the activities described in the draft plan by March 29, 2010.
5. Pursuant to OAR 690-086-910(3), the Department reviewed the revised plan for consistency with OAR Chapter 690, Division 086 as adopted by the Water Resources Commission in 1994.

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied. (Updated on 12/8/04)

6. The final plan is generally consistent with the relevant requirements and includes a work plan as described in the Department's comments for completion of additional work necessary to satisfy the requirements within five years.

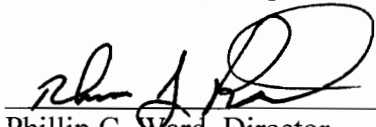
Conclusion of Law

The water management and conservation plan with the inclusion of the work plan, submitted by Klamath Drainage District is consistent with the criteria in OAR Chapter 690, Division 086.

Now, therefore, it is ORDERED:

1. The Klamath Drainage District Water Management and Conservation Plan is approved and shall remain in effect until March 29, 2010, unless this approval is rescinded pursuant to OAR 690-086-0920.
2. The Klamath Drainage District shall submit an updated plan meeting the requirements of OAR Chapter 690, Division 86 (effective November 1, 2002) within five years and no later than March 29, 2010.

Dated at Salem, Oregon this ninth day of May 2005



Phillip C. Ward, Director

Appeals should be addressed to the attention of: Bill Fujii

Appeals deadline: August 9, 2005

Water Resources Department

Agricultural Water Management and Conservation Plan Review Worksheet

(OAR Chapter 690, Division 086)

Supplier: Klamath Drainage District

Reviewer: Mary Grainey – Modified by Bill Fujii & Darren Cordoba

Date: October 2004

OAR 690-086-0240 – System Description	
(1) General location of water right acreage, numbers of the associated water right certificates and permits and a description of relevant conditions of the water rights including the seasons of use and the uses of any other permitted withdrawals by the supplier;	Klamath Adjudication
(2) Source(s) of water; storage and regulation facilities; and a summary of any transfer, rotation, exchange or intergovernmental cooperation agreements;	Klamath Lake, Klamath River, and return flows from Klamath Project.
(3) A schematic of the system showing storage and distribution facilities, drainage systems, measurement stations, generalized district boundaries, points of diversion and locations of major operational spills;	Complete
(4) Current water use, including peak and average annual diversions and, when available, water reuse and return flows;	Measurement data is questioned by district. See attached comments
(5) A summary of major classifications of user accounts showing water right acreages, the number of accounts of each classification, and the beneficial uses for which water is provided (irrigation, frost protection, temperature control, agricultural use, livestock, domestic, etc.);	Irrigation, winter flooding. See attached comments.
(6) Types of on-farm irrigation systems common within the supplier's accounts;	Sprinkler & flood
(7) A general characterization of crops commonly grown and the estimated average and peak	Table 2 - pg 14 See attached comments about

consumptive use of the crops; and	evapotranspiration.
(8) A description of the operation and maintenance program.	Complete
OAR 690-086-0250 – Water Conservation Element	
(1) A progress report on the conservation measures scheduled for implementation in the water management and conservation plan previously approved by the Department, if any;	NA
(2) A description of the water supplier's agricultural water measurement program and a statement that the program complies with the measurement and reporting standards in OAR 690, Division 85, that a time extension or waiver has been granted, or that the standards are not applicable;	Is measured at main diversions. District questions accuracy of measuring devices. See attached comments.
(3) A description of other conservation measures currently implemented by the water supplier;	Tailwater recovery
(4) Short- and long-term goals of the water supplier to improve water management;	Complete
(5) An evaluation of the opportunities for improving water use efficiency which includes:	
(a) A description of losses of water from canals, pipelines, and laterals, including any operational spills;	Losses go to wildlife refuge in CA. Extensive drainage system returns flows to Klamath River.
(b) An assessment of the extent to which water deliveries are insufficient to meet crop needs;	
(c) A list of alternative conservation measures to reduce the losses of water identified in (a) of this subsection and address any insufficiencies of water deliveries identified in (b); and	Redraft plan with understanding of actual water use according to rated measuring device.
(d) An assessment of existing and future alternatives to finance conservation measures including an analysis of the possibility of applying for the allocation of conserved water (OAR 690-018-0010 to OAR 690-018-0090).	Allocation of conserved water not applicable, would require a certificated water right
(6) For each of the following conservation measures	

not currently being implemented, an evaluation of whether implementation of the measure is feasible and appropriate for ensuring the efficient use of water and the prevention of waste:	
(a) Promotion of energy audits offered through local electric utilities for district water users;	Add.
(b) Conversion to metered, pressurized deliveries to all parcels of one acre or less;	NA
(c) Piping or lining earthen canals;	Need options to maintain flow to end of North Canal
(d) Modifying distribution facilities and district policies to increase the flexibility of water deliveries;	Users at end of North Canal have no ability to schedule delivery
(e) Provision of on-farm irrigation scheduling assistance;	Add
(f) Construction of re-regulating reservoirs;	Not applicable
(g) Adoption of rate structures that support and encourage water conservation;	Add
(h) Each of the conservation measures listed in (5)(c);and any other conservation measures identified by the water supplier that would improve water use efficiency; and	Complete
(i) Any other conservation measures identified by the water supplier that would improve water use efficiency.	Studying tailwater recovery
(7) A description and estimated schedule for implementation of each of the following conservation measures:	
(a) An information and education program aimed at improving the efficiency of use of water delivered. The program should address all types of uses served and include voluntary water use audits; and	Add.
(b) Any other conservation measures identified as feasible and appropriate under (6).	Complete
(8) A program to monitor and evaluate the effectiveness of the conservation measures which are implemented.	Add.
OAR 690-086-0260 – Water	

Allocation/Curtailment Element	
(1) A description of the frequency and magnitude of past supply deficiencies and current capacity limitation. The description shall include an assessment of the ability of the water supplier to maintain delivery during drought or other source shortages.	Requires 5 year update, because of change in U.S.B.R. supply restrictions
(2) A description of the water supply situation(s) that cause the water allocation/curtailment element to be implemented, including identification of the supply situations which trigger warnings to users or public notice of impending shortage; and	5 year update
(3) A description of the procedure used to allocate water during water shortages.	5 year update
OAR 690-086-0270 – Water Supply Element	
(1) An estimate of the water supplier's long-range water demand projections for 20 years;	Not expected to increase.
(2) A comparison of the projected water needs and the size and reliability of water rights permits or other current water supply contracts held by the water supplier;	Update - 5 years
(3) A list of potential sources of water, including conservation and reuse, to supply the long-range needs;	Update - 5 years
(4) A comparison among the potential sources of additional water considering costs, availability, reliability, and likely environmental impacts;	Update - 5 years
(5) An evaluation of the effects of the following factors on long-range water needs:	
(a) Regional options for meeting future water needs;	Klamath adjudication and ESA constraints determine future options
(b) Urbanization and other land-use trends;	Not applicable
(c) Provisions in affected local governments' comprehensive plans relating to agricultural lands, urbanization, water resources, water supply, public facilities and services, and any other pertinent plan element or ordinance relating to uses or lands served, or to be served, under the long-term water supply	Local government plans not likely to impact future supply for this district

plan.	
OAR 690-086-0225 -- Additional Requirements	
(5) A list of the affected local governments to whom the plan water made available pursuant to OAR 690-086-0220 (6) and a copy of any comments on the plan provided by the local governments.	No comments applicable for 2005
(6) A date for submittal of an updated water management and conservation plan based on the schedule for implementation of conservation measures, any relevant schedules for other community planning activities, and the rate of growth of or other changes expected by the water supplier; or an explanation of why submittal of an updated plan is unnecessary and should not be required by the Department.	Recommend 5 years
<i>December 3, 2003 - dp</i>	

Irrigation Efficiencies as of 2005

The District provides calculations of water use efficiency based on water applied during the normal growing season of April through September. There is large amount of water applied during the months of October through March for winter flooding. Water used for winter flooding is included as part of the equation for determining efficiency of use.