

Section III – Part L Water Rights

Charlie Kimm, President
Low Line Canal

Re: Low Line Canal

Dear Mr. Kimm,

Thank you for the opportunity to speak with the Board of the Low Line Canal recently. As a result of this meeting, it became apparent that our engineering calculations were not corresponding to the actual water rights owned by the Ecton Ranch.

After an exhaustive review of the original bylaws of the Low Line Canal and our calculations we determined that we greatly underestimated our actual water rights. The following is an analysis of our actual water rights:

- 1 Share of Low Line Canal = 1 Miner's Inch
- 260 Shares of Low Line Canal associated with Ecton Ranch = 260 Miner's inches of water available at Ecton Ranch
- 40 Miner's inches = 1 Cubic Foot/Second
- $260 \div 40 = 6.5$ Cubic Feet/Second (as) water available at Ecton Ranch
- 1 CFS = 1.98 Acre-Feet Per Day (AF/Day)
- $1.98 \text{ AF/Day} \times 6.5 \text{ CFS} = 12.87 \text{ AF/Day}$ available water at Ecton Ranch
- Assume water available from Low Line Canal – April 15 through July 1 each year – 77 days
- $12.87 \text{ AF/Day} \times 77 \text{ Days} = 991 \text{ AF}$ of water available at Ecton Ranch
- Assume only 75% availability averaged out over 77 Day period ($75\% \times 991 \text{ AF} = 743 \text{ AF}$)
- 1 AF = 325,851 gallons

- 325,851 gallons x 743 AF = 242,127,293 gallons available annually at Ecton Ranch

It is the desire of the Ownership Group of Ecton Ranch to utilize 78 million gallons or 234 Acre Feet of Low Line Water per year. This is derived from the following analysis:

- 21 Million Gallons for irrigation (261,000 GPD x 77 Days)
- 40 Million Gallons of water for Emergency Fire Water and Water Features
- 15 Million Gallons of water for Groundwater Recharge

Assuming this conservative estimate of water-needs, Amsterdam Village would be able to return 509 Acre Feet of water to the other users of the Low Line Canal. The reality of this analysis indicates only a 32% use of Low Line Canal Water given an average of 75% availability over a 77 day season.

Obviously water is not a guaranteed commodity. We would be willing to further restrict our water use to less than 50% of our shares on any given day throughout the irrigation season. We hereby request that the Low Line Canal consider changing its bylaws allowing for alternative use of irrigation water. We are willing to pay reasonable attorney fees to achieve such a change. We also agree to continue to pay for our full 260 shares of the Low Line Canal.

Please contact me should you have any further questions about this request.

Sincerely,

Wayne Freeman, Director
CTA Landworks



DNRC Water Right Query System

Water Right	A	WR Type	Status	Purpose	Priority Date yyyymmdd (hhmm)	Src	Src Name	Means of Diversion	Owner	Flow Rate	Volume	Acres	Doc Image	Div Count & map	Use Count & map	Irr Count & map	Res Count & map	Issue Remarks
41H 113367 00	A	IRRIGATION DISTRICT	ACTV	IRRIGATION		S	WEST GALLATIN RIVER	HEADGATE	LOW LINE CANAL CO				View	1	196	196		
41H 113368 00	A	STATEMENT OF CLAIM	ACTV	IRRIGATION	18900509	S	WEST GALLATIN RIVER	HEADGATE	LOW LINE CANAL CO	85.00 CFS		9640	View	1	196	196		Yes
41H 113369 00	A	STATEMENT OF CLAIM	ACTV		19010601	S	WEST GALLATIN RIVER	HEADGATE	LOW LINE CANAL CO	40.00 CFS		9640	View	1				Yes
41H 113370 00	A	STATEMENT OF CLAIM	ACTV		19130601	S	WEST GALLATIN RIVER	HEADGATE	LOW LINE CANAL CO	62.50 CFS		9640	View	1				Yes