

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT
To appropriate the public waters of the State of Idaho

1. Name of applicant Glanbia Foods Inc Phone 208-733-7555
Mailing address 1373 Filmore, Twin Falls, ID 83301
2. Source of water supply Groundwater which is a tributary of _____
3. Location of point of diversion is Township 4S Range 20E Sec. 18, in the NW $\frac{1}{4}$, NE $\frac{1}{4}$,
NE $\frac{1}{4}$, Govt. Lot _____, B.M., Lincoln County; additional points of diversion, if any: _____
NE 1/4, NE1/4, Sec 18 T4S R20E
4. Water will be used for the following purposes:
Amount 8.0 for Irrigation purposes from 3-15 to 11-15 (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity being appropriated is (a) 8.0 and/or (b) 1600
cubic feet per second acre-feet per annum
6. Proposed diverting works:
 - a. Describe type and size of devices used to divert water from the source: Well(s) and pipelines to
sprinkler systems
 - b. Height of storage dam 0 feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet.
 - c. Proposed well diameter is 16 inches; proposed depth of well is 800 feet
 - d. Is groundwater with a temperature of greater than 85° degrees being sought? No
 - e. If well is already drilled, when? No; Drilling firm _____;
Well was drilled for (well owner) _____; Driller Permit No. _____
7. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year)
8. Description of proposed uses (if irrigation only, go to item 9):
 - a. Hydropower; show total feet of head and proposed capacity in kW. _____
 - b. Stockwatering; list number and kind of livestock. _____
 - c. Municipal; show name of municipality. _____
 - d. Domestic; show number of households. _____
 - e. Other; describe fully. _____

9. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4S	19E	26			22.5					40	30.8	5.9				5.3			104.5
	20E	7					40	47	47	40	40	47	47	40	35	40	25	30	478
		8	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40		600
		18	40	30	40	40	35												185

Permissible Place of Use-Limited to 400 acres/season Total number of acres to be irrigated 1367.5

10. Describe any other water rights used for the same purposes as described above. Proposed permissible
place of use has applicable shares from the Big Wood Canal Company-Magic Reservoir

11. a. Who owns the property at the point of diversion? Applicant
- b. Who owns the land to be irrigated or place of use? Applicant
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: _____

12.. Remarks: Extraction of ground water and use under this permit will be mitigated
by drying up 400 acres under water rights 36-16112, 36-16111, 36-16115, 36-16123
See attached mitigation plan

13. MAP OF PROPOSED PROJECT REQUIRED – Attach an 8 ½ "x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. (A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.)

BE IT KNOWN that the undersigned hereby makes this application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Chris E. Brachman

Signature of Applicant (include title, if applicable.)

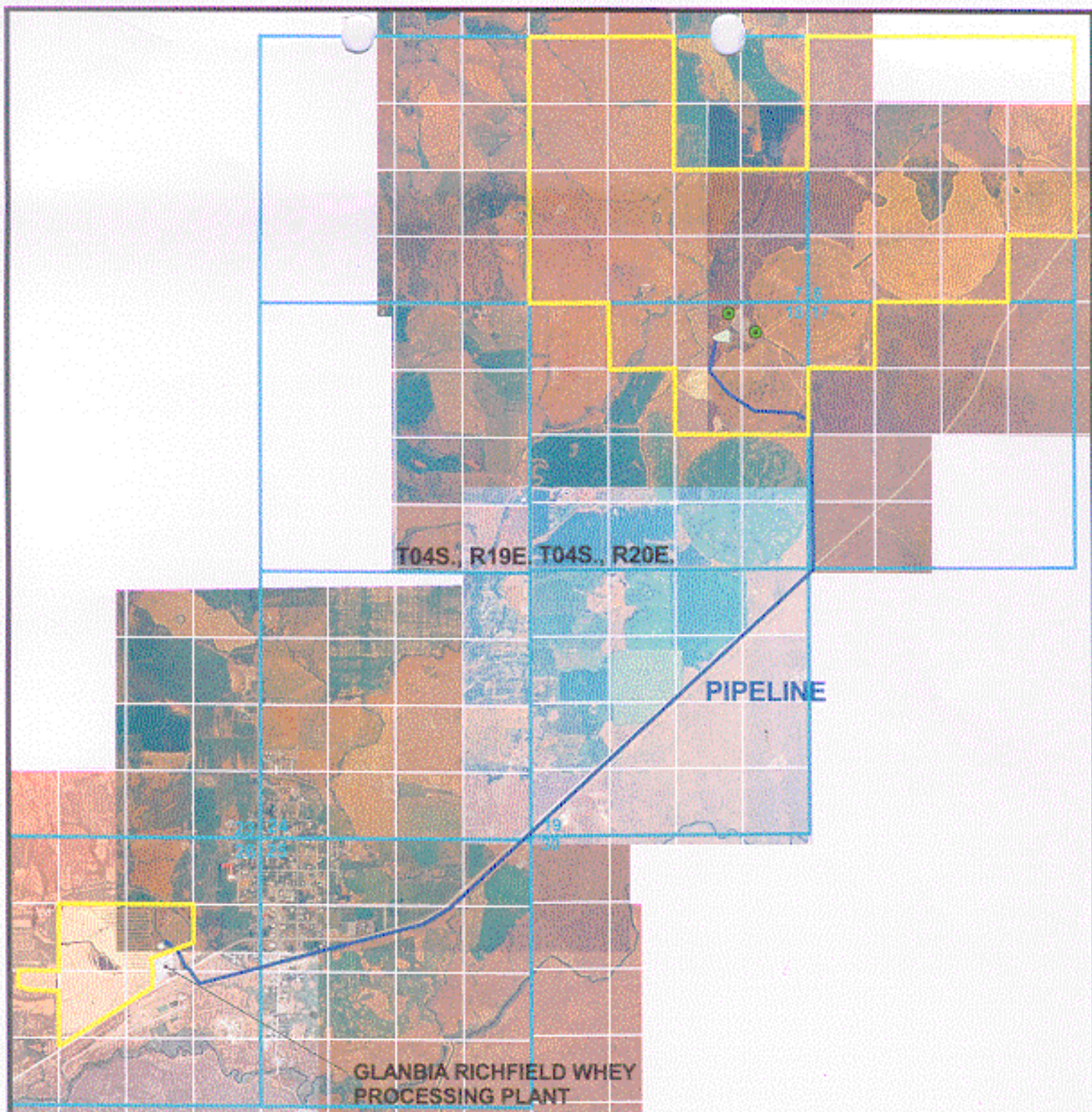
Power of Attorney

Received by ga Date 7-3-03 Time 4:55 pm Preliminary check by _____

Fee \$ 530. Received by ga # 5025955 Date 7-7-03

Publication prepared by _____ Date _____ Published in _____

Publication approved _____ Date _____



**GLANBIA (RICHFIELD)
PLACE OF USE
Aerial Photo 2002**

BROCKWAY ENGINEERING, PLLC.
ALR July 3, 2003

- Prop wells.shp
- POU.shp
- Pipeline.shp
- Section.shp
- 40s20e.shp
- 40s19e.shp



Narrative in Support of Application and Mitigation Plan for Water Right Glanbia Foods Inc.

July 3, 2003

1. Mitigation

The applicant will purchase and dry up irrigated acreage under decreed water rights in the Eastern Snake Plain Aquifer to mitigate for pumping proposed under this permit. Specifically, it is proposed to purchase and dry up 400 acres of ground water irrigated land under four (4) water rights as shown on the attached Table 1.

The Applicant has agreed to reduce pumping volume at the Richfield site in a quantity sufficient to assure that no additional hydrologic impact to any reach of the Snake River occurs. The quantity of reduced pumping has been calculated using the IDWR Transfer Spreadsheet model developed by the University of Idaho. The quantity of reduced pumping for each year is set out in the table(s) appended hereto. These mitigation requirements will be incorporated by the Department into the water right permit as permanent conditions on the affected water rights.

Ground water diverted under this proposed permit will be used on a permissible place of use (PPU), part of which is land specified in Department of Environmental Quality (DEQ) permits for treatment of effluent from the Glanbia Richfield whey processing plant. DEQ encourages the use of drag tubes on land application sprinkler systems for waste water treatment to assure that airborne spray does not get off the property. Some permits currently require the use of drag tubes. The design flow for this type of irrigation application is 9 gpm/acre or 0.02 cfs/acre. Therefore the diversion requirement for this permit is proposed with a maximum of 0.02 cfs/acre.

Because Glanbia Richfield is a DEQ permitted waste water land application treatment system, a firm, full season water supply is required.

Ground water under this permit will be utilized with surface water supplied from the Big Wood Canal Company from Magic Reservoir. An analysis of historical water availability from Magic Reservoir was performed for the period 1977 through 2003. This analysis shows that irrigation water from Magic Reservoir is available an average of 138 days per year. The worst year of record, since 1977 was 1992 when Magic Reservoir water was available 48 days during the irrigation season. In many years(16 years out of 27) Magic Reservoir water is available for the entire irrigation season. Based on the 1977-2003 record, groundwater under this proposed permit would be required 36 days per year on average with a maximum of 124 days (1992)

The ground water rights proposed to be dried up for mitigation for this permit allow a total of 0/012 cfs/acre on the 400 acres and a maximum annual volume of 1600 acre feet (see attached mitigation table). This permit proposes to divert a maximum of 0.02 cfs/acre on the 400 acres specified for the waste waer treatment site within the PPU when Magic Reservoir water is not available. It is proposed, therefore, to limit the annual ground water pumping under this permit to the maximum specified in the mitigation table (1600 acre feet per year maximum) but allow a diversion rate of 0.02 cfs/acre only on the 400 acres specified in the waste water treatment site.

2. Monitoring of Water Use

Discharge from the new well(s) will be monitored by the Applicant, in accordance with the Director's new water right transfer guidance or other applicable requirements as determined by the Director. The quantity of pumped volumes will be reported annually to IDWR and the average annual pumped volume determined from the reported data.

3. Positive impacts on other reaches

The Department does not currently have a mechanism in place to recognize the positive impacts that a transfer may have on other river reaches within the Eastern Snake Plain Aquifer. However, it is understood that the development of this process is underway.

The Applicant understands that no "reach credits" will be recognized in conjunction with the approval of this transfer at this time. However, when such "reach credits" are recognized in the future by the Department or other appropriate entity, the Applicant retains the right to apply for such credits based on this mitigation plan.

When such credits are subsequently recognized, they will accumulate only from that point in time forward.

4. No reopening of mitigation calculation

The Applicant agrees that the quantification of the mitigation obligation (as set out in the attached table(s)) will be permanent. The quantity of mitigation will not be subject to re-opening, re-examination, or re-calculation, except my mutual agreement and approval by the Department. This restriction applies even in the event that new data, new modeling or other information becomes available.

5. Substitute mitigation

As specified above, the mitigation for hydrologic impacts will be provided in the form of reduced pumping . No other method of achieving the mitigation may be substituted by the Applicant, except upon approval of the Department of an application for modification of the mitigation requirement as provided for by law.

Specifically, any substitute mitigation must be "in kind" (meaning that it must provide a substitute supply of water—rather than some other kind of compensation—to make up for the depletions caused by the transfer), "in time" (meaning that the make-up water must be provided so as to reach the impacted area at the appropriate time to respond to the depletion caused by the transfer), and "in place" (meaning that the replacement must provide water to same area as the depletions are experienced). Finally, the substitute mitigation must provide water to the depleted impacted areas with the same degree of certainty and reliability as the original mitigation.

Glanbia Richfield-Mitigation Acres to be Dried Up

Irrigated Acreage authorized under water rights 36-16111, 36-16112, 36-16115, 36-16123 Phillips

WR AUTHORIZED

<u>T 8S R 21E</u>	<u>QUARTER QUARTER</u>	<u>ACREAGE</u>	<u>EAGE TO BE DRIED UP</u>
24	NESW	40.00	40
24	SESW	40.00	40
24	NESE	35.80	32.8
24	NWSE	40.00	11.2
24	SWSE	40.00	
24	SESE	40.00	
25	NENE	40.00	40
25	NWNE	40.00	40
25	SWNE	31.00	31
25	SENE	20.00	20
25	NENW	40.00	40
25	SENW	14.00	14
 <u>T 8S R 22E</u>			
30	NWNW	40.00	40
	SWNW	35.00	35
	NESW	16.00	16
		511.80	400.00

Table 1 **PRELIMINARY**
Proposed Pumping Schedule **Mitigation Plan**
Glanbia Richfield

Mitigation	FROM:	Phillips	Model Node	9	22
Applicant: Glanbia-Phillips					
Permit Pending	TO:	Glanbia Richfield	17	19	

Acres dried up for mitigatic	400 acres	Phillips
Allowed vol.	4 af/a	
Mitigation Transferred:	1600.0 af/year	
	533.3 af/trimester	

TRANSFER NO 2	FROM:	0	0	0
Applicant: 0				
Transfer # None	TO:	0	0	0
Acres dried up to transfer	0 acres			
Allowed vol.transfer	4 af/a			
Volume Transferred:	0.0 af/year			
	0.0 af/trimester			

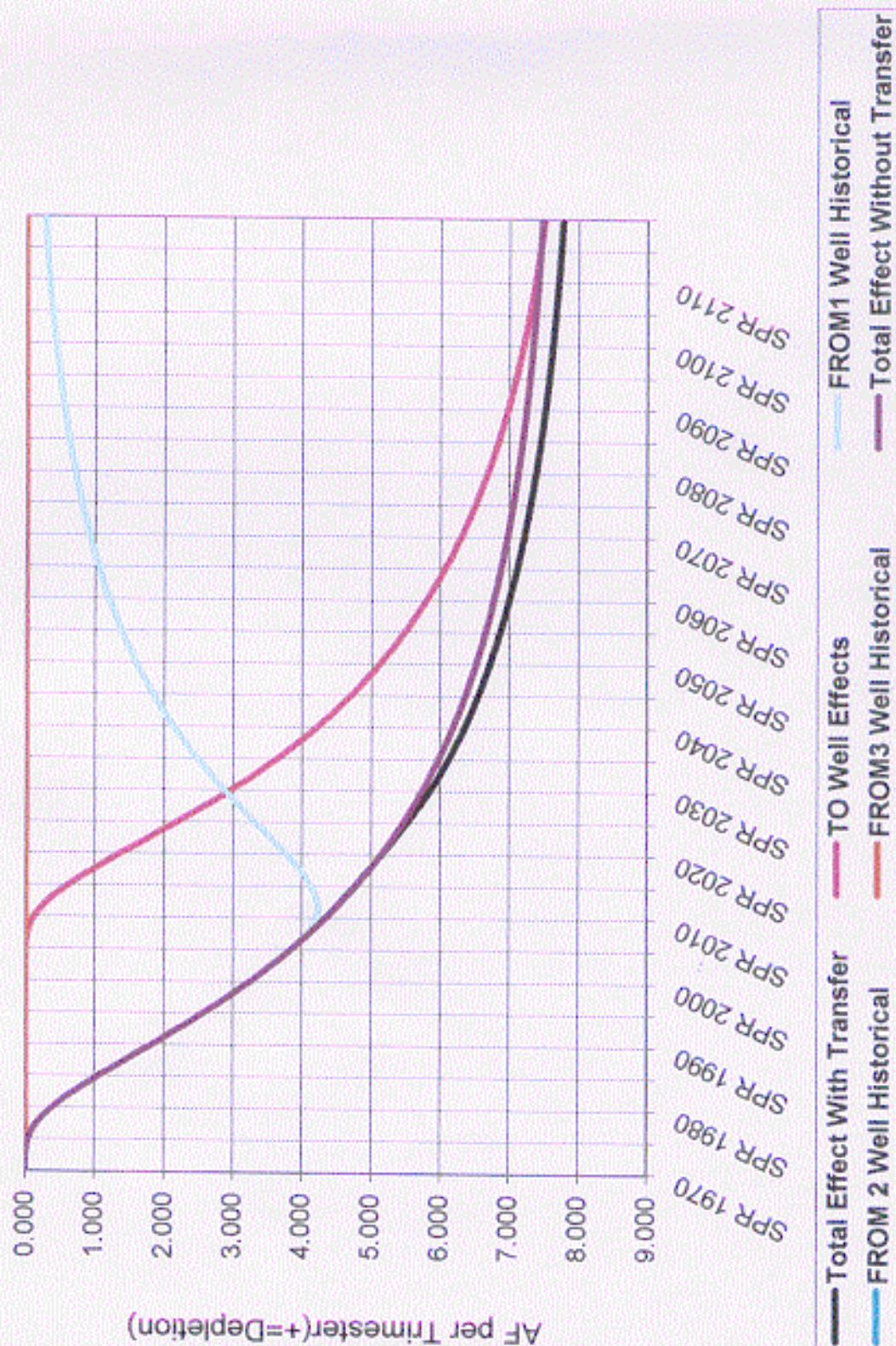
MITIGATION ACRES (if any)		Model Node
Additional acres dried up	acres FROM:	
Allowed transfer	af/a	
Volume (Mitigation)	0.0 af/year	
	af/trimester	

				ANNUAL PUMPING							
Begin	Years End	Number	Actual Af/yr	Mitigation Acres		Glanbia Richfield	Percent of Trans	Percent Reduction	0	Percent of Trans	Percent Reduction
					Source	Pumping af/year			Pumping af/year		
2003	2007	5			Reduced Pumping	1600.0	1.00	0.00	0.0	0	1.00
2008	2012	5			Reduced Pumping	1600.0	1.00	0.00	0.0	0	1.00
2013	2017	5			Reduced Pumping	1600.0	1.00	0.00	0.0	0	1.00
2018	2022	5			Reduced Pumping	1600.0	1.00	0.00	0.0	0	1.00
2023	2031	9			Reduced Pumping	1488.0	0.93	0.07	0.0	0	1.00
2032	2042	11			Reduced Pumping	1488.0	0.93	0.07	0.0	0	1.00
2043	2052	10			Reduced Pumping	1488.0	0.93	0.07	0.0	0	1.00
2053	2072	20			Reduced Pumping	1488.0	0.93	0.07	0.0	0	1.00
2073 >>>>					Reduced Pumping	1488.0	0.93	0.07	0.0	0	1.00

Mitigation for impacts to reaches of the Snake River will be achieved by reduced pumping at the proposed place of use according to the above table..

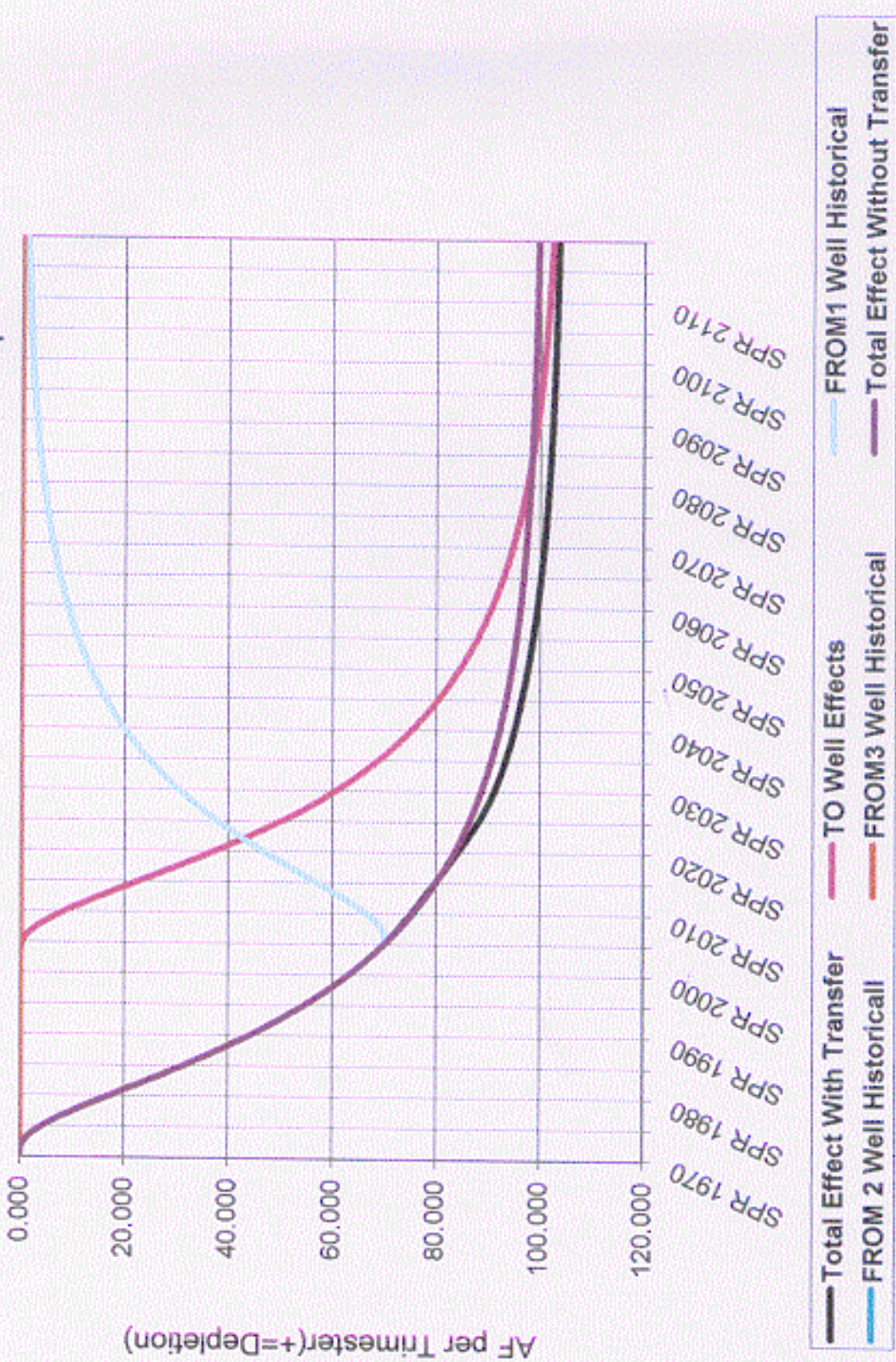
Hydrologic Response--Heise/Ashton to Lewisville

Transfer No: Pending Applicant: Glanbia-Phillips



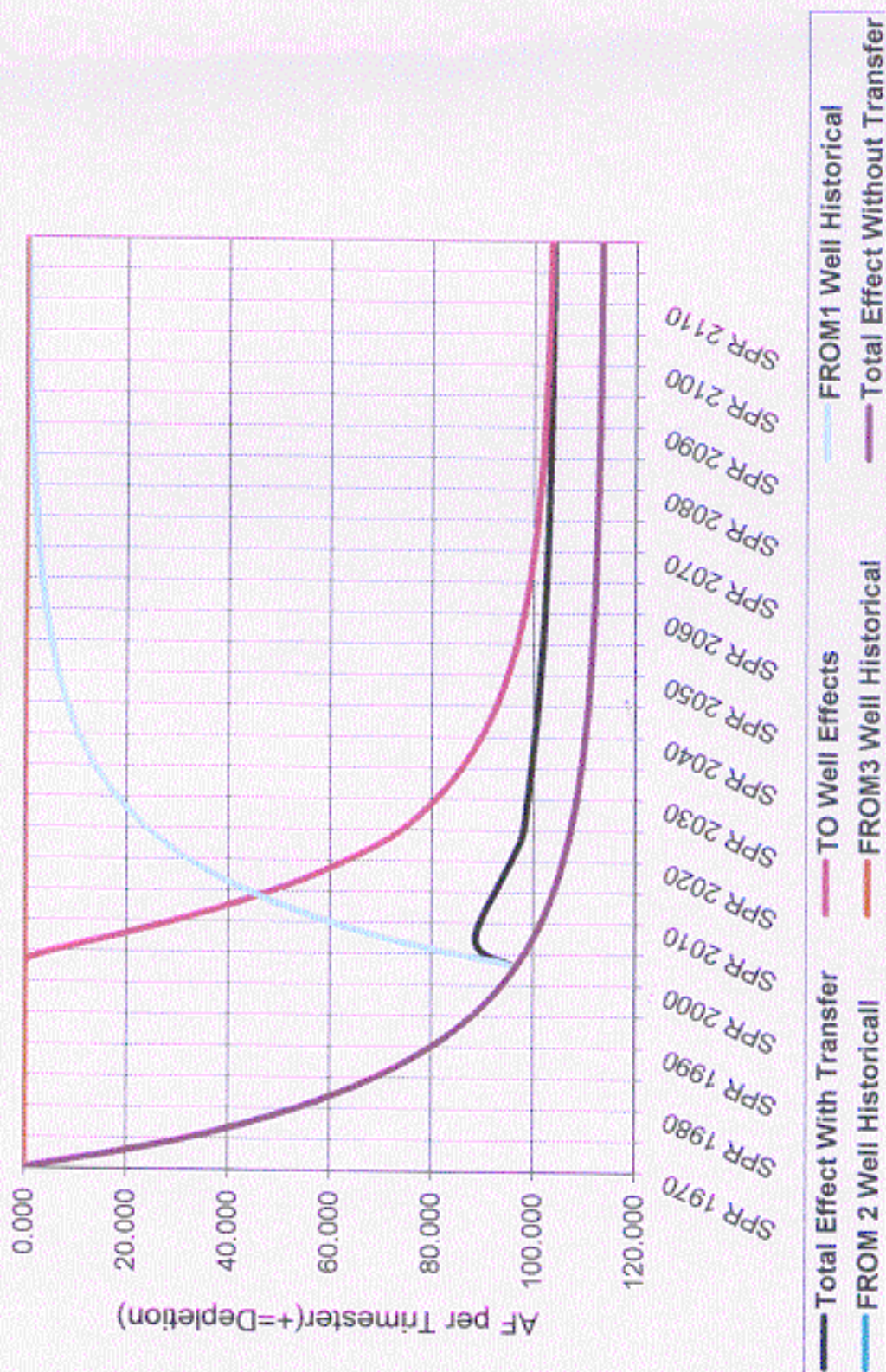
Hydrologic Response--Near Shelley to Neeley Reach

Transfer No: Pending Applicant: Gianbia-Phillips



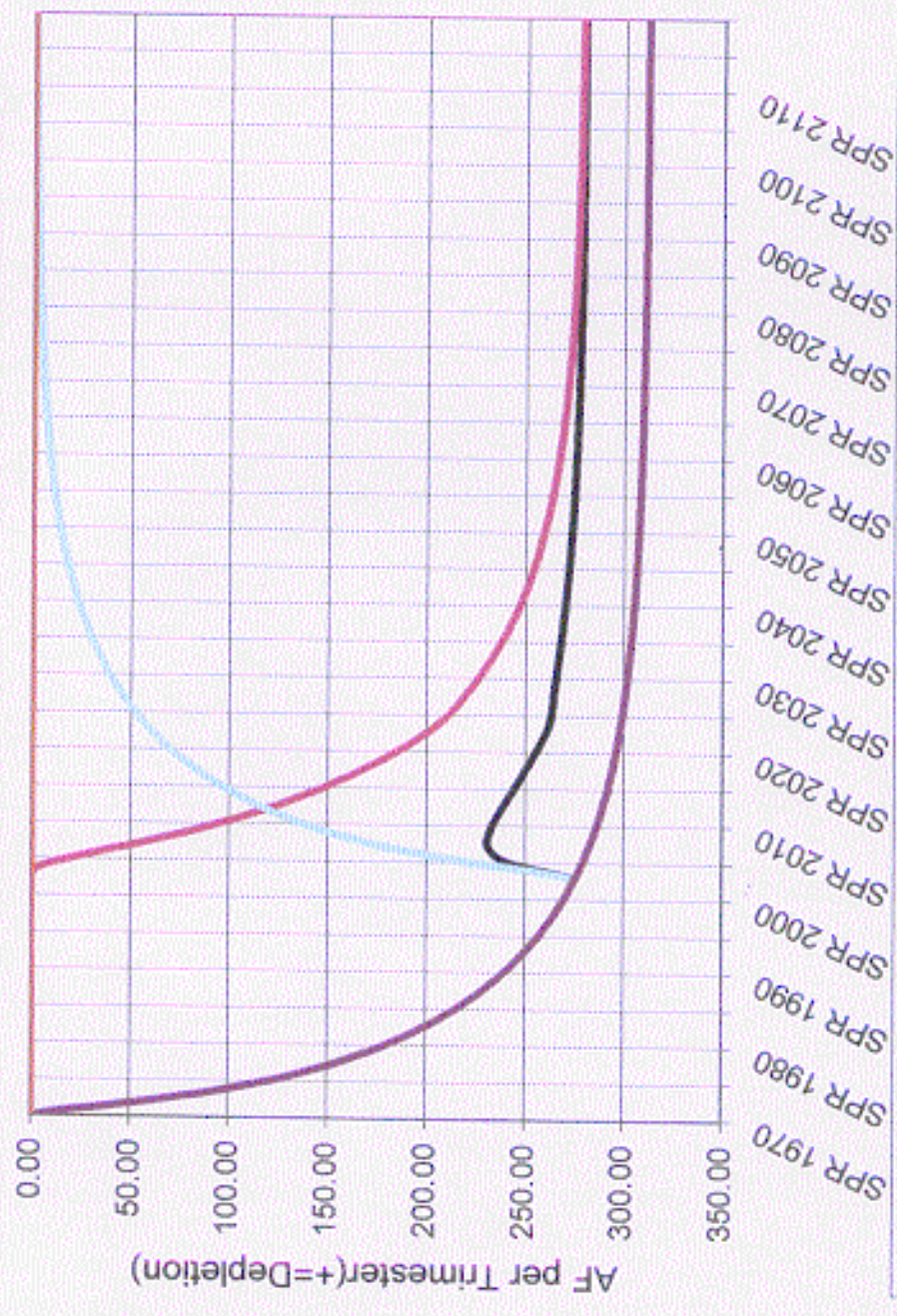
Hydrologic Response--Neeley to Minidoka

Transfer No: Pending Applicant: Glanbia-Phillips



FROM 2 Well Historical FROM 3 Well Historical Total Effect Without Transfer

Hydrologic Response-- Milner to King Hill Reach Transfer No. Pending Applicant: Gianbia-Phillips

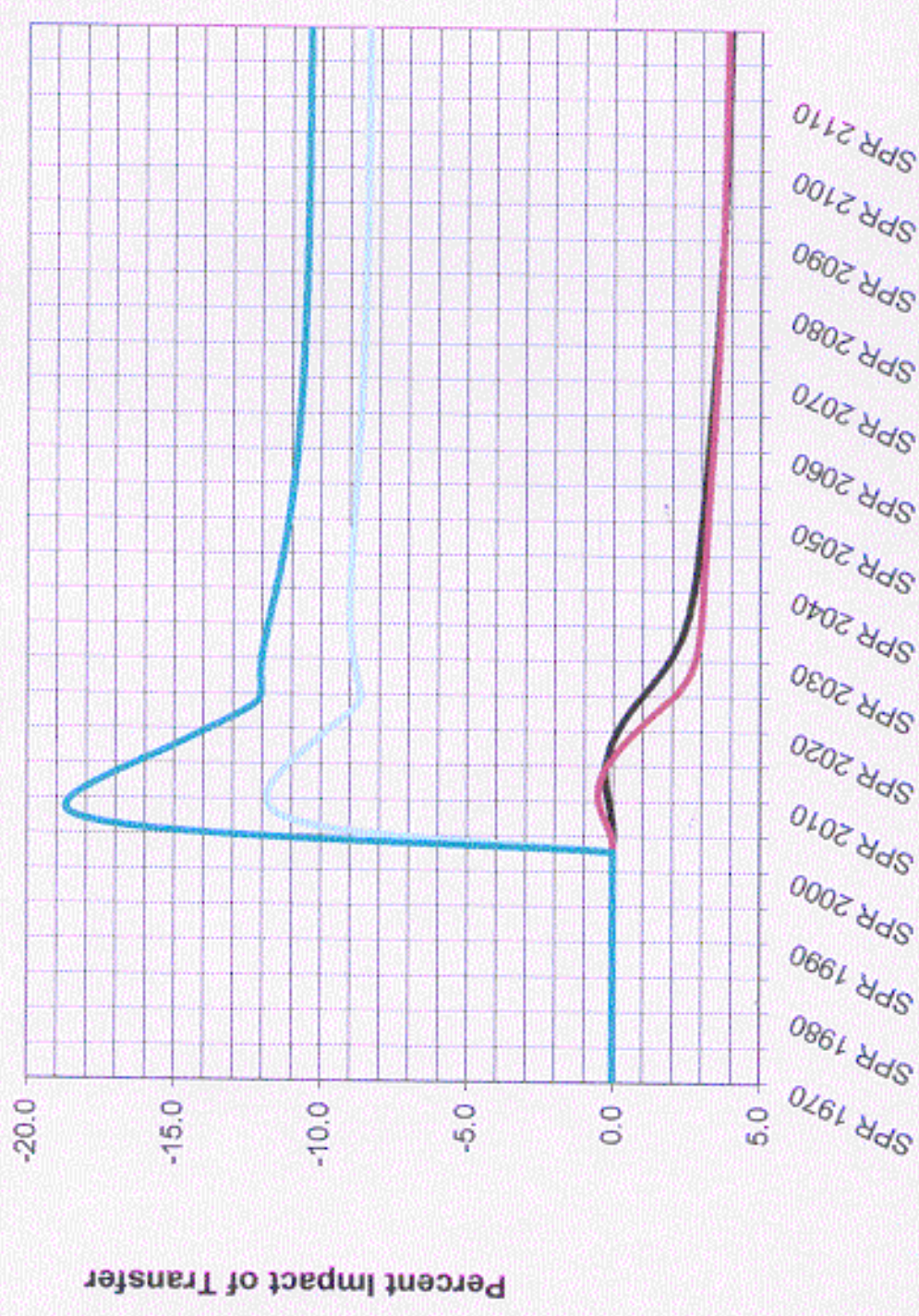


TO Well Effects
 FROM 2 Well Historical
 Total Effect Without Transfer

Total Effect With Transfer
 FROM 1 Well Historical
 FROM 3 Well Historical(not used)

FROM3 Well Historical(not used) Total Effect Without Transfer

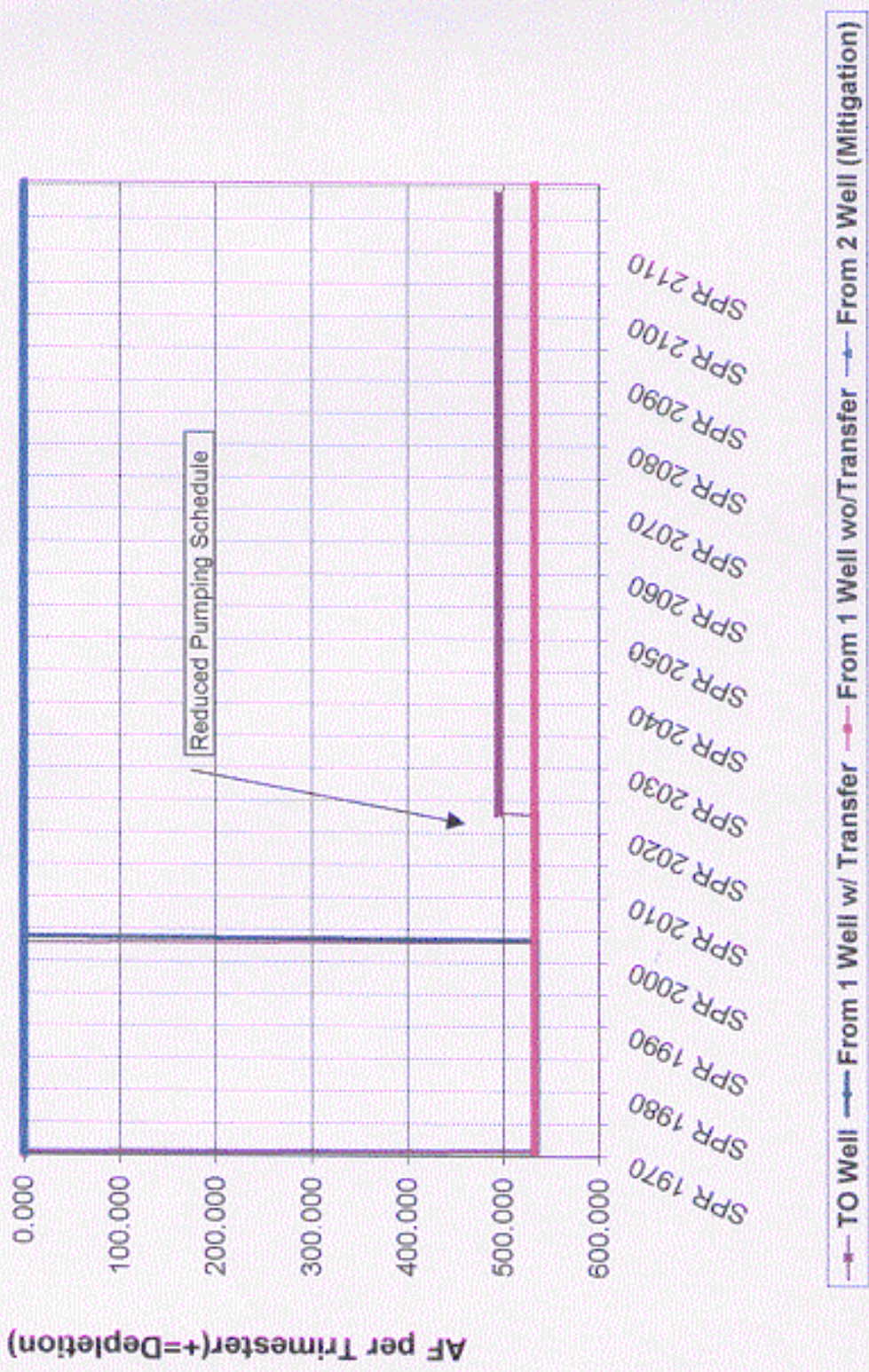
Net Percent Transfer Impact
 Transfer No: Pending Applicant: Glanbia-Phillips



Unica/Ashten to Louisville Near Challow to Moden Moden to Minidale Minidale to Vinn LIII

Heise/Ashton to Lewisville — Near Shelley to Neeley — Neeley to Minidoka — Milner to King Hill

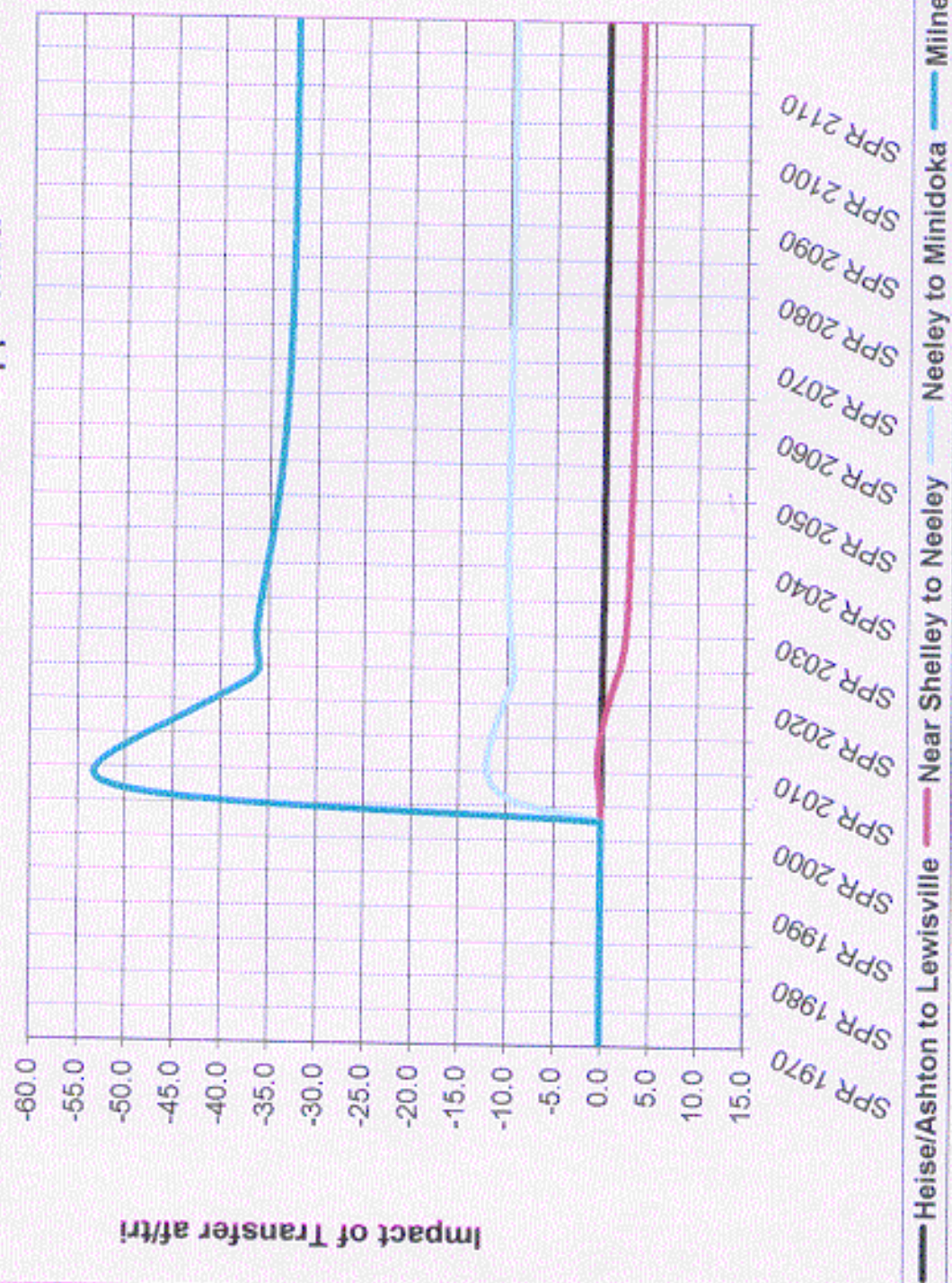
Pumping and Mitigation Schedule
Transfer No Pending Applicant: Glanbia-Phillips



Net Transfer Impact

Transfer No: Pending

Applicant: Gianbia-Phillips



PROJECT: Glanbia Foods Richfield Water Rights Transfer Phillips 2003

Water Requirements

ET from Brockway and Allen (1983)

Proposed Irrigated Acres

Irrigation Method

Proposed Crop Distribution and IR

Station Consumptive Use from Allen and Brockway 1983 Station:

Monthly average daily (mm/day) and Seasonal Totals (mm)

400

Sprinkler

Irrigation Efficiency %

80

Richfield Import from U of I, Kimberly

Project Consumptive Use and Irrigation Requirement by Crop

	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	Percent	Weighted
	mm/yr	acre ft	acre ft	acre ft	acre ft	acre ft	acre ft	acre ft	annual crop	acre	Annual
ET											
MEAN ET	1.52	4.65	6.28	7.87	8.05	6.73	5.17	3.34	1335		
STDV ET	0.54	0.48	0.5	0.51	0.31	0.37	0.4	0.34	46		
Alfalfa Hay										100	
MEAN CU	1.76	5.63	6.99	6.64	5.12	3.4	1.1		939		1230.6
MEAN IR	1.35	5.02	6.41	6.46	4.85	3.12	0.77		856		1124.0
STDEV CU	0.18	0.45	0.45	0.25	0.28	0.26	0.11		30		
STDEV IR	0.43	0.69	0.96	0.38	0.57	0.51	0.37		55		
Alfalfa Seed										0	
MEAN CU	2.72	5.58	6.99	6.31	3.33	1.76	0.64		837		1097.6
MEAN IR	2.28	4.97	6.41	6.13	3.09	1.53	0.31		756		992.3
STDEV CU	0.28	0.45	0.45	0.24	0.18	0.14	0.06		28		
STDEV IR	0.52	0.68	0.96	0.36	0.46	0.4	0.34		54		
Dry Beans										0	
MEAN CU		2.54	6.05	5.63	1.11				472		618.9
MEAN IR		2.16	5.9	5.39	0.9				441		579.8
STDEV CU		0.16	0.23	0.31	0.09				15		
STDEV IR		0.53	0.33	0.56	0.31				29		
Silage Corn										0	
MEAN CU	1.88	2.65	6.34	6.35	4.28				660		865.6
MEAN IR	1.43	2.23	6.17	6.07	3.99				609		801.0
STDEV CU	0.15	0.17	0.24	0.35	0.33				21		
STDEV IR	0.39	0.59	0.36	0.64	0.56				39		
Sweet Corn										0	
MEAN CU	1.88	2.73	6.45	6.12					530		695.3
MEAN IR	1.43	2.3	6.28	5.84					489		641.8

	0.15	0.18	0.25	0.34	18
STDEV CU	0.15	0.18	0.25	0.34	36
STDEV IR	0.39	0.59	0.36	0.62	
Pass					
MEAN CU	1.4	2.8	5.89	3.62	1.07
MEAN IR	1.04	2.36	6.18	3.49	0.89
STDEV CU	0.14	0.22	0.43	0.14	0.06
STDEV IR	0.36	0.43	0.87	0.24	0.31
Potatoes					
MEAN CU	1.9	4.83	6.76	5.28	3.19
MEAN IR	1.55	4.46	6.83	5.08	2.98
STDEV CU	0.15	0.31	0.26	0.29	0.25
STDEV IR	0.32	0.64	0.34	0.49	0.41
Sugar Beets					
MEAN CU	1.4	1.88	3.08	7.25	6.67
MEAN IR	1	1.42	2.63	7.07	6.38
STDEV CU	0.14	0.15	0.2	0.28	0.37
STDEV IR	0.39	0.39	0.63	0.4	0.67
Spring Grain					
MEAN CU	1.4	3.14	7.61	7.94	2.86
MEAN IR	1.05	2.7	7.09	7.77	2.66
STDEV CU	0.14	0.25	0.49	0.3	0.16
STDEV IR	0.36	0.45	0.93	0.41	0.39
Winter Grain					
MEAN CU	0.49	3.5	6.22	7.87	7.83
MEAN IR	0.06	3.08	5.63	7.3	7.65
STDEV CU	0.17	0.36	0.5	0.51	0.3
STDEV IR	0.36	0.57	0.71	0.99	0.42
Pasture					
MEAN CU	1.98	4.83	6.06	6.2	5.16
MEAN IR	1.57	4.28	5.53	6.03	4.92
STDEV CU	0.2	0.39	0.39	0.24	0.29
STDEV IR	0.44	0.61	0.86	0.35	0.56
Vegetables					
MEAN CU	1.9	4.03	6.16	5.36	3.56
MEAN IR	1.55	3.68	6.04	5.16	3.35
STDEV CU	0.15	0.26	0.23	0.3	0.27
STDEV IR	0.32	0.58	0.32	0.5	0.44
Total %					100

Weighted Monthly CU and IR										
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	
	acre f	acre f	acre f	acre f	acre f	acre f	acre f	acre f	acre f	annual
Alfalfa Hay										
CU	0	69.3	229	275	270	208	134	44.8	1231	
IR	0	53.1	204	252	263	197	123	31.3	1124	
Alfalfa Seed										
CU	0	0	0	0	0	0	0	0	0	
IR	0	0	0	0	0	0	0	0	0	
Dry Beans										
CU	0	0	0	0	0	0	0	0	0	
IR	0	0	0	0	0	0	0	0	0	
Silage Corn										
CU	0	0	0	0	0	0	0	0	0	
IR	0	0	0	0	0	0	0	0	0	
Sweet Corn										
CU	0	0	0	0	0	0	0	0	0	
IR	0	0	0	0	0	0	0	0	0	
Peas										
CU	0	0	0	0	0	0	0	0	0	
IR	0	0	0	0	0	0	0	0	0	
Potatoes										
CU	0	0	0	0	0	0	0	0	0	
IR	0	0	0	0	0	0	0	0	0	
Sugar Beets										
CU	0	0	0	0	0	0	0	0	0	
IR	0	0	0	0	0	0	0	0	0	
Spring Grain										
CU	0	0	0	0	0	0	0	0	0	
IR	0	0	0	0	0	0	0	0	0	
Winter Grain										
CU	0	0	0	0	0	0	0	0	0	
IR	0	0	0	0	0	0	0	0	0	
Pasture										

Weighted Avg Annual

CU Total	acre ft	1230.6
IR Total	acre ft	1124.0

CU af/ac	3.08
IR af/ac	2.81

[illegible]

Project Monthly CU and IR

CU	0	69.3	229	275	270	208	134	44.8	1231 ac.ft
IR	0	53.1	204	252	263	197	123	31.3	1124 ac.ft

Project Monthly Diversion Req'ts Application Efficiency = 80 Percent

Based on CU	0	86.6	286	344	338	260	167	55.9	1538	ac ft	3.846	af/a
Based on IR	0	66.4	255	315	329	247	154	39.2	1405	ac ft	3.513	af/a

3.846 af/a
3.513 af/a

Glanbia Richfield Water Requirements

Big Wood Canal Availability from Big Wood Canal Company

Big Wood Canal Company-Magic Reservoir Shares and Groundwater Req'ts
Crop Water Requirements using Allen and Brockway 1983

Div Req't Month af	Period Begin	End	Days	Diversion Req't %of Month af/period	1977			1978			1979			1980		
					BWC		GW	BWC		GW	BWC		GW	BWC		Supply
					On	Supply	af	On	Supply	af	On	Supply	af	On	Supply	af
	3/1	3/8	9	0.1		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
	3/9	3/17	9	0.3		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
	3/18	3/25	9	0.4		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
0.0	3/26	3/31	6	0.5		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
	4/1	4/8	8	0.1		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
	4/9	4/16	8	0.2		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
	4/17	4/24	8	0.3		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
86.6	4/25	4/30	5	0.4		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
	5/1	5/8	9	0.2		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
	5/9	5/17	9	0.25		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
	5/18	5/25	9	0.26		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0
286.3	5/26	5/31	6	0.29	On	57.3	0.0	On	57.3	0.0	On	57.3	0.0	On	57.3	0.0
	6/1	6/8	8	0.25	On	71.6	0.0	On	71.6	0.0	On	71.6	0.0	On	71.6	0.0
	6/9	6/16	8	0.25	On	74.4	0.0	On	74.4	0.0	On	74.4	0.0	On	74.4	0.0
	6/17	6/24	8	0.25	On	83.0	0.0	On	83.0	0.0	On	83.0	0.0	On	83.0	0.0
344.0	6/25	6/30	5	0.25	On	86.0	0.0	On	86.0	0.0	On	86.0	0.0	On	86.0	0.0
	7/1	7/8	9	0.26	On	86.0	0.0	On	86.0	0.0	On	86.0	0.0	On	86.0	0.0
	7/8	7/16	9	0.26	On	87.8	0.0	On	87.8	0.0	On	87.8	0.0	On	87.8	0.0
	7/16	7/23	9	0.25	On	87.8	0.0	On	87.8	0.0	On	87.8	0.0	On	87.8	0.0
337.7	7/23	7/31	9	0.23	On	0.0	84.4	On	84.4	0.0	On	84.4	0.0	On	84.4	0.0
	8/1	8/8	9	0.27	On	0.0	77.7	On	77.7	0.0	On	77.7	0.0	On	77.7	0.0
	8/8	8/16	9	0.26	On	0.0	70.3	On	70.3	0.0	On	70.3	0.0	On	70.3	0.0
	8/16	8/23	9	0.24	On	0.0	67.7	On	67.7	0.0	On	67.7	0.0	On	67.7	0.0
260.4	8/23	8/31	9	0.23	On	0.0	62.5	On	62.5	0.0	On	62.5	0.0	On	62.5	0.0
	9/1	9/8	9	0.33	On	0.0	59.9	On	59.9	0.0	On	59.9	0.0	On	59.9	0.0
	9/8	9/16	9	0.26	On	0.0	55.2	On	55.2	0.0	On	55.2	0.0	On	55.2	0.0
	9/16	9/23	9	0.22	On	0.0	43.5	On	43.5	0.0	On	43.5	0.0	On	43.5	0.0
167.3	9/23	10/1	9	0.19	On	0.0	36.8	On	36.8	0.0	On	36.8	0.0	On	36.8	0.0
	10/1	10/8	9	0.55	On	0.0	31.8	On	31.8	0.0	On	31.8	0.0	On	31.8	0.0
	10/8	10/16	9	0.45	On	0.0	30.8	On	30.8	0.0	On	30.8	0.0	On	30.8	0.0
55.9	10/16	10/23	9	0	On	0.0	25.2	On	0.0	25.2	On	0.0	25.2	On	0.0	25.2
Days Magic ON	10/23	10/31	9	0	On	0.0	0.0	On	0.0	0.0	On	0.0	0.0	On	0.0	0.0
Days GW On					78	171.5		146	171.5		26	1327.1	99.4	1426.4		
1538.2					102	9		9	26		93.0	7.0	100.0			
Percent					805.9	645.7		1426.4	25.2		1327.1	99.4	1426.4			
					55.5	44.5		98.3	1.7		93.0	7.0	100.0			

**Glanbia Rich
Big Wood Ca**

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Glanbia Rici
Big Wood Ca

Div Req't Month	1987		1988		1989		1990		1991		1992		1993	
	IWC	GW	BWC	GW	BWC	GW	BWC	GW	BWC	GW	BWC	GW	BWC	GW
	af	af	af	af	af	af	af	af	af	af	af	af	af	af
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.6	34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	57.3	0.0	On	57.3	0.0	On	57.3	0.0	0.0	57.3	On	57.3	0.0	57.3
	71.6	0.0	On	71.6	0.0	On	71.6	0.0	0.0	71.6	On	71.6	0.0	On
	74.4	0.0	On	74.4	0.0	On	74.4	0.0	On	74.4	On	74.4	0.0	On
286.3	83.0	0.0	On	83.0	0.0	On	83.0	0.0	On	83.0	On	83.0	0.0	On
	86.0	0.0	On	86.0	0.0	On	86.0	0.0	On	86.0	On	86.0	0.0	On
	86.0	0.0	On	86.0	0.0	On	86.0	0.0	On	86.0	On	86.0	0.0	On
	86.0	0.0	On	86.0	0.0	On	86.0	0.0	On	86.0	On	86.0	0.0	On
344.0	86.0	0.0	On	86.0	0.0	On	86.0	0.0	On	86.0	On	86.0	0.0	On
	86.0	0.0	On	86.0	0.0	On	86.0	0.0	On	86.0	On	86.0	0.0	On
	87.8	0.0	On	87.8	0.0	On	87.8	0.0	On	87.8	On	87.8	0.0	On
	87.8	0.0	On	87.8	0.0	On	87.8	0.0	On	87.8	On	87.8	0.0	On
	84.4	0.0	On	84.4	0.0	On	84.4	0.0	On	84.4	On	84.4	0.0	On
337.7	77.7	0.0	On	77.7	0.0	On	77.7	0.0	On	77.7	On	77.7	0.0	On
	70.3	0.0	On	70.3	0.0	On	70.3	0.0	On	70.3	On	70.3	0.0	On
	67.7	0.0	On	67.7	0.0	On	67.7	0.0	On	67.7	On	67.7	0.0	On
	62.5	0.0	On	62.5	0.0	On	62.5	0.0	On	62.5	On	62.5	0.0	On
260.4	59.9	0.0	On	59.9	0.0	On	59.9	0.0	On	59.9	On	59.9	0.0	On
	55.2	0.0	On	55.2	0.0	On	55.2	0.0	On	55.2	On	55.2	0.0	On
	43.5	0.0	On	43.5	0.0	On	43.5	0.0	On	43.5	On	43.5	0.0	On
	36.8	0.0	On	36.8	0.0	On	36.8	0.0	On	36.8	On	36.8	0.0	On
167.3	31.8	0.0	On	31.8	0.0	On	31.8	0.0	On	31.8	On	31.8	0.0	On
	0.0	30.8	0.0	30.8	0.0	30.8	0.0	30.8	0.0	30.8	0.0	30.8	0.0	30.8
55.9														
Days Magic			95		154.5	78		61		47.75	154.5		120.5	
Days GW On			77		17	94		111		124	9		51	
1538.2	1430.3	30.8	968.0	458.5	1363.9	62.6	805.9	657.0	769.5	437.0	989.5	1338.4	88.0	
Percent	97.9	2.1	67.9	32.1	95.6	4.4	56.5	46.1	53.9	30.6	69.4	93.8	6.2	

**Glanbia Rich
Big Wood Ce**

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55.9

Days Magic

Days GW On

15

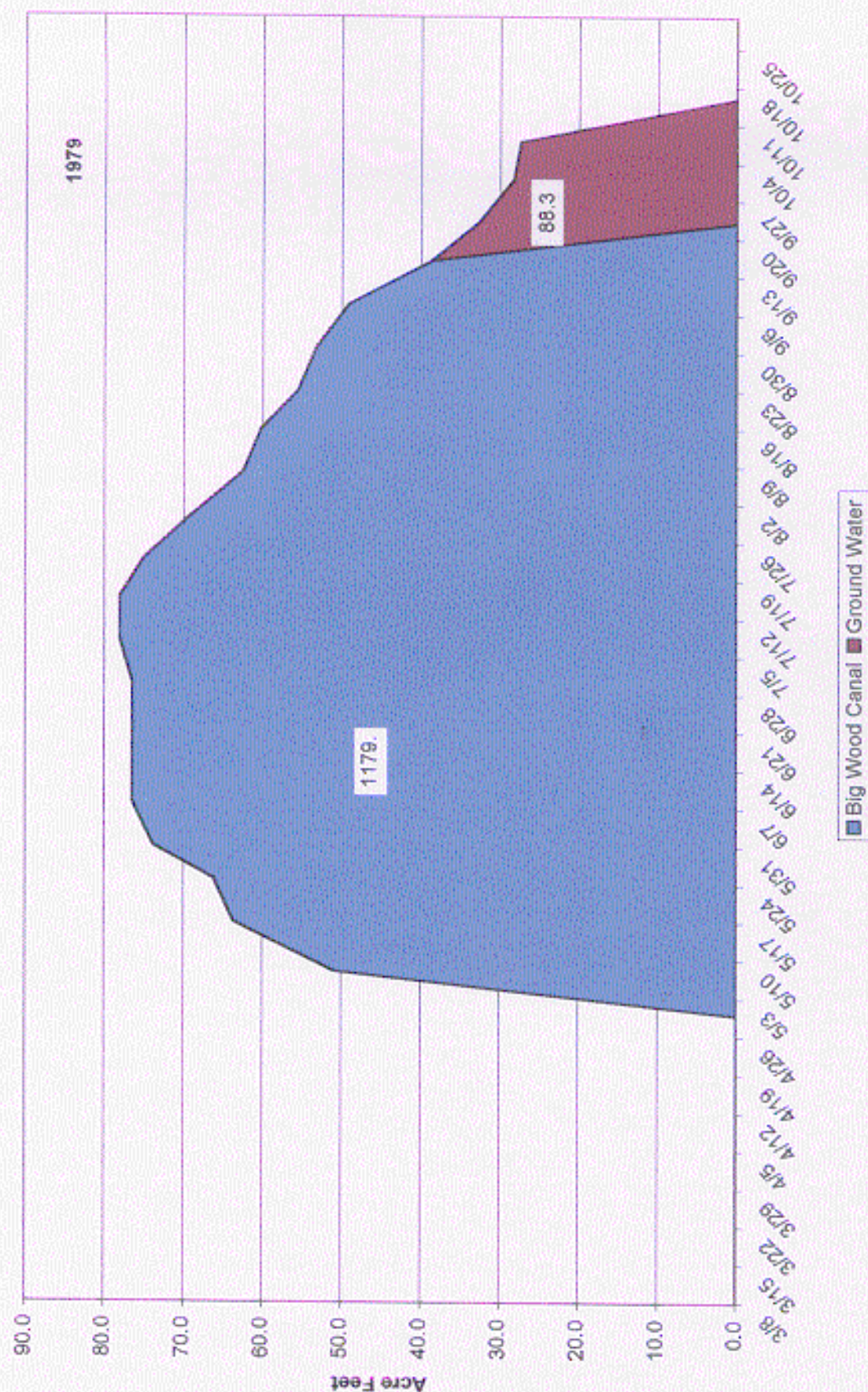
Glanbia Rici
Big Wood Ca

Div Req't Month af	On	2001			2002			2003		
		BWC		GW	BWC		GW	BWC		GW
		Supply	Req'd	af	Supply	Req'd	af	Supply	Req'd	af
0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.6		0.0	34.6	0.0	0.0	34.6	0.0	0.0	34.6	0.0
		0.0	57.3	On	57.3	0.0	0.0	0.0	57.3	0.0
	On	71.6	0.0	On	71.6	0.0	0.0	0.0	71.6	0.0
	On	74.4	0.0	On	74.4	0.0	On	74.4	0.0	0.0
286.3	On	83.0	0.0	On	83.0	0.0	On	83.0	0.0	0.0
	On	86.0	0.0	On	86.0	0.0	On	86.0	0.0	0.0
	On	86.0	0.0	On	86.0	0.0	On	86.0	0.0	0.0
	On	86.0	0.0	On	86.0	0.0	On	86.0	0.0	0.0
344.0	On	86.0	0.0	On	86.0	0.0	On	86.0	0.0	0.0
		0.0	87.8	On	87.8	0.0	On	87.8	0.0	0.0
		0.0	87.8	On	87.8	0.0	On	87.8	0.0	0.0
		0.0	84.4		0.0	84.4		0.0	84.4	
337.7		0.0	77.7		0.0	77.7		0.0	77.7	
		0.0	70.3		0.0	70.3		0.0	70.3	
		0.0	67.7		0.0	67.7		0.0	67.7	
		0.0	62.5		0.0	62.5		0.0	62.5	
260.4		0.0	59.9		0.0	59.9		0.0	59.9	
		0.0	55.2		0.0	55.2		0.0	55.2	
		0.0	43.5		0.0	43.5		0.0	43.5	
		0.0	36.8		0.0	36.8		0.0	36.8	
167.3		0.0	31.8		0.0	31.8		0.0	31.8	
		0.0	30.8		0.0	30.8		0.0	30.8	

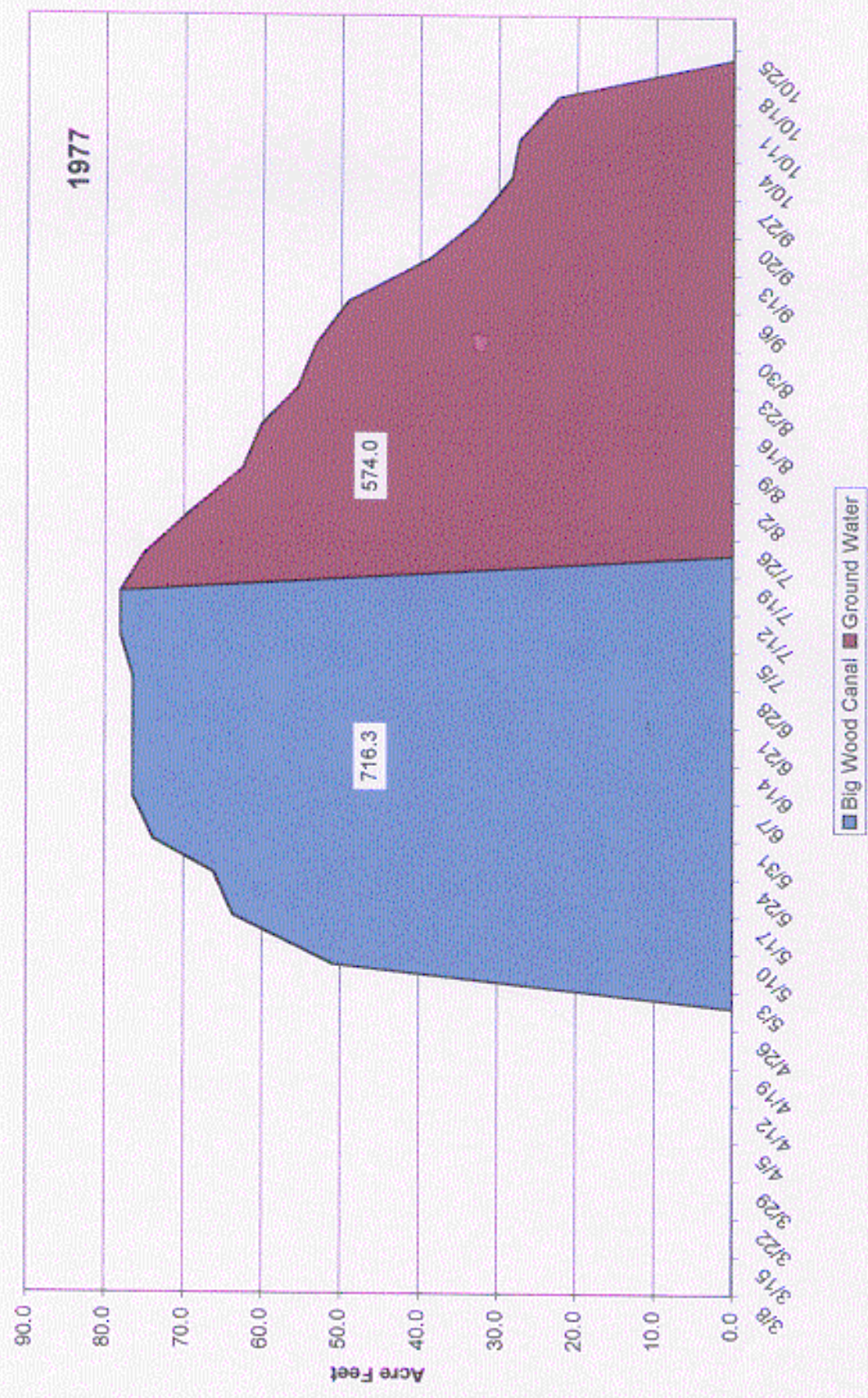
55.9										
Days Magic	52.5									
Days GW On	111									
1538.2		573.0	888.0							
Percent		39.2	60.8							
				78				61		
				94				94		
					805.9	655.2			677.0	784.0
					55.2	44.8			46.3	53.7

Year	Magic Avai Groundwater Req'd af	af	5 Yr avg	Total Req'd af	Magic OnGW Req'd Days	Days
1977	805.9	645.7		1451.6	78	102
1978	1426.4	25.2		1451.6	171.5	9
1979	1327.1	99.4		1426.4	146	26
1980	1426.4	0.0		1426.4	171.5	0
1981	1395.7	30.8	160.2	1426.4	163	9
1982	1504.4	0.0	31.1	1504.4	193.25	0
1983	1426.4	0.0	26.0	1426.4	171.5	0
1984	1504.4	0.0	6.2	1504.4	193.25	0
1985	1426.4	0.0	6.2	1426.4	171.5	0
1986	1395.7	30.8	6.2	1426.4	163	9
1987	1430.3	30.8	12.3	1461.1	168.25	9
1988	968.0	458.5	104.0	1426.4	95	77
1989	1363.9	62.6	116.5	1426.4	154.5	17
1990	805.9	620.5	240.6	1426.4	78	94
1991	657.0	769.5	388.4	1426.4	61	111
1992	437.0	989.5	580.1	1426.4	47.75	124
1993	1338.4	88.0	506.0	1426.4	154.5	9
1994	1171.1	255.3	544.6	1426.4	120.5	51
1995	1461.1	0.0	420.5	1461.1	176.75	0
1996	1487.0	0.0	266.6	1487.0	185	0
1997	1456.3	30.8	74.8	1487.0	176.5	9
1998	1430.3	30.8	63.4	1461.1	168.25	9
1999	1430.3	30.8	18.5	1461.1	168.25	9
2000	1430.3	30.8	24.6	1461.1	168.25	9
2001	573.0	888.0	202.2	1461.1	52.5	111
2002	805.9	655.2	327.1	1461.1	78	94
2003	677.0	784.0	477.8	1461.1	61	94
Average	1206.0	242.8		1448.8	138.4	36.1
Max	1504.4	989.5		1504.4	193.3	123.8
Min	437.0	0.0		1426.4	47.8	0.0
For Allowed Div Req't of GW irrigated acreage Av		4		af/a		
Max		60.7		acres		
Min		247.4		acres		
		0.0		acres		

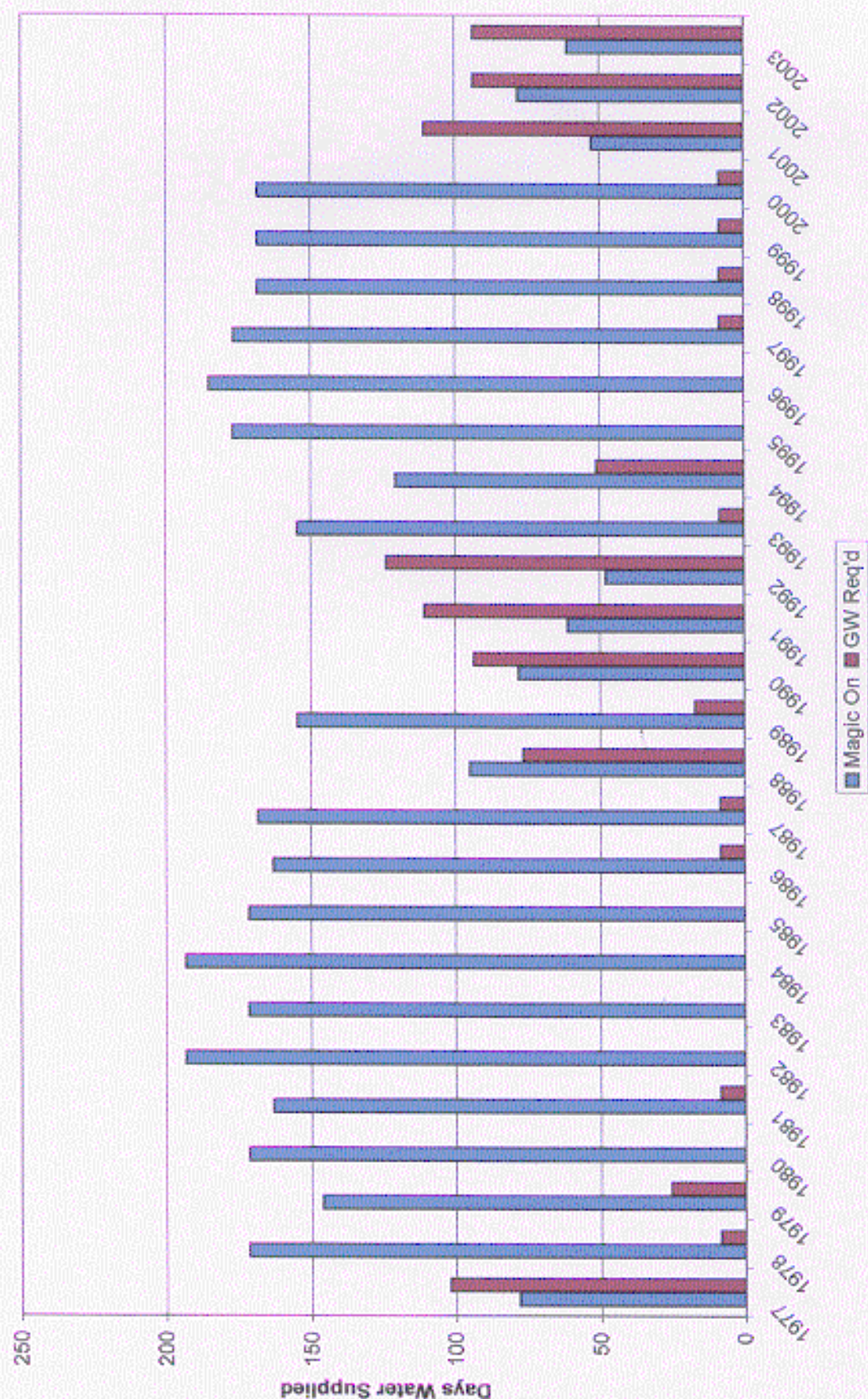
Glanbia Richfield Water Requirements and Supply



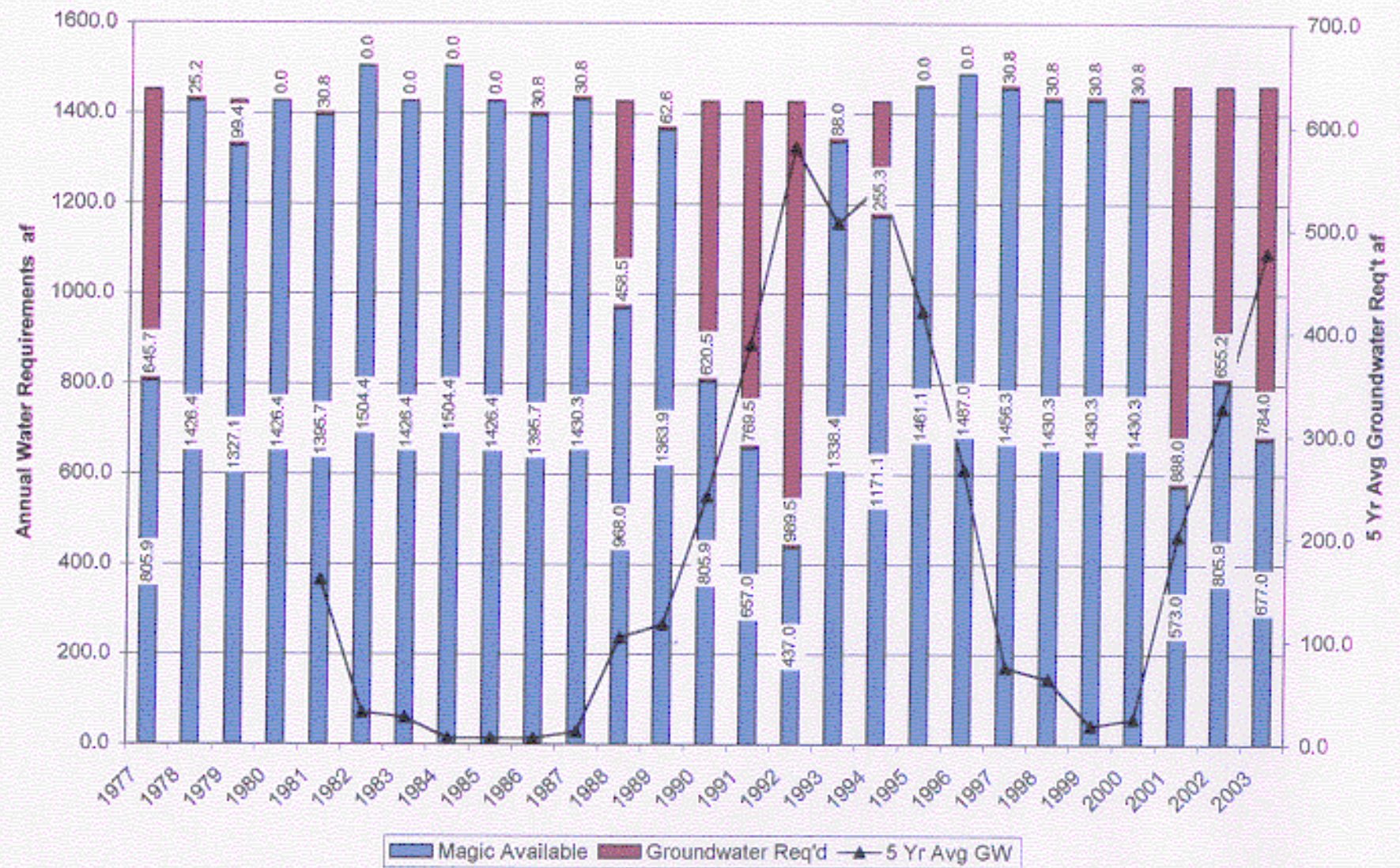
Glanbia Richfield Water Requirements and Supply



Glanbia Richfield Irrigation Days



Glanbia Richfield Water Requirements



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
POWER OF ATTORNEY

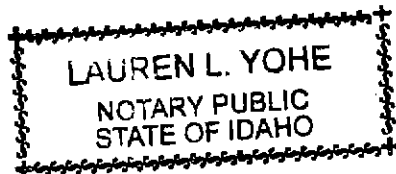
The Undersigned holder(s) of permit/Application No. Application for Permit of the Department of Water Resources of the State of Idaho hereby nominates Charles E. Brockway, whose address is 2016 N. Washington St., Twin Falls, ID 83301 as attorney-in-fact, with full authority to act for and on behalf of the undersigned in all matters pertaining to the above numbered permit or application. Such acts shall include, but not be limited to, the filing of application, receiving of all notices, the signing and filing of applications for extension of time and for amendments of said permits, and the submission of proofs of completion of works and beneficial use of water.

Dated this 3rd day of July, 2003

David L. Thomas
CEO
Glantia Foods, Inc.

State of Idaho)
) s.s.
County of Twin Falls)

On this 3rd day of July, in the year of 2003, before me, a Notary Public, personally appeared David L. Thomas, proved to me on The basis of satisfactory evidence to be the person(s) whose name(s) is (are) subscribed to the within instrument, and acknowledged that he (she) (they) executed the same.



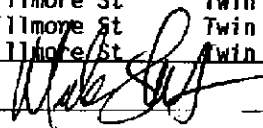
S
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L

Lauren L. Yohe
Notary Public
In and for said State and County
5/19/07
My Commission Expires on

No. C 37505 Return to: SECRETARY OF STATE 700 WEST JEFFERSON PO BOX 83720 BOISE, ID 83720-0080 NO FILING FEE IF RECEIVED BY DUE DATE	Due no later than May 31, 2003 Annual Report Form 1. Filing Address - Correct in this box if applicable GLANBIA FOODS, INC. DAVID THOMAS 1373 FILLMORE ST TWIN FALLS, ID 83301	2. Registered Agent and Office NO PO BOX DAVID THOMAS 1373 FILLMORE ST TWIN FALLS, ID 83301 3. New Registered Agent Signature
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4. Corporations: Enter Names and Business Addresses of President, Secretary and Directors.

Office held	Name	Street or P.O. Address	City	State	Zip
President	Thomas, David L.	1373 Fillmore Street	Twin Falls	ID	83301
Vice Pres	Williams, Jeffry O.	1373 Fillmore St	Twin Falls	ID	83301
Secretary	Short, Mark	1373 Fillmore St	Twin Falls	ID	83301
Treasurer	Short, Mark	1373 Fillmore St	Twin Falls	ID	83301
Director	Maloney, John	Glanbia House	Co. Kilkenney	Ireland	
Director	Talbot, Hannah J.	Glanbia House	Co. Kilkenney	Ireland	
Director	Neagher, Geoffrey	Glanbia House	Co. Kilkenney	Ireland	
Director	Thomas, David L.	1373 Fillmore St	Twin Falls	ID	83301
Director	Williams, Jeffry O.	1373 Fillmore St	Twin Falls	ID	83301
Director	Short, Mark	1373 Fillmore St	Twin Falls	ID	83301

5. Organized Under the Laws of: IDAHO C 37505	6. Signature  Date 05/09/03 (Typed or Name Printed) Mark Short Title Sec/Treas
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Issued 03/03/2003

Do Not Tape or Staple

2183

IDAHO WATER COMPANY

AGREEMENT FOR PURCHASE AND SALE OF WATER RIGHT

THIS AGREEMENT is made and entered into this July 3, 2003 by and between Delbert Kohtz Idaho Water Company (hereinafter 'Seller') and Glanbia Foods Inc. (hereinafter 'Buyer'). The seller, Del Kohtz discloses that he is a licensed real estate agent acting herein as principal for his own account and not representing or acting as an agent for the buyer.

TERMS AND CONDITIONS

1. The Sellers, in consideration of the terms contained herein, do hereby contract and agree to sell and convey to the Buyers and the Buyer does hereby agree to buy from the Sellers 1600 acre feet/anum of irrigation water under Idaho Water Right 36-16111, 36-16112, 36-16115, 36-16123.
2. The total purchase price shall be \$ 1. The entire purchase price shall be paid on the closing date described in paragraph 4 below, less 10% finder's fee and down payment paid at signing. Payment of \$ paid at signing.
3. This Agreement for Purchase and Sale of said licenses is contingent upon and subject to approval of the application for permit and mitigation plan by the Department of Water Resources. If the application is not approved, and/or if Glanbia Foods, Inc. is unable to develop an acceptable well for irrigation after due diligence, this Agreement shall become null and void and water right may be returned to Idaho Water Company for a full refund of up front monies.
4. The closing of this transaction and delivery of the executed Assignment to Buyer and the entire purchase price less the down payment, Seller shall take place at the law offices of Ling and Robinson, 615 H Street, Rupert, Idaho, within thirty days of Buyers receipt of approval from the Department of the application for permit.
5. The Buyers shall be given possession and use of the water right and the water appurtenant thereto, upon closing.

6. In the event of any suit proceeding by either party against the other party, in any way arising out of this agreement, the prevailing party shall be awarded their reasonable attorney fees and costs.

7. Each party agrees to pay one-half of any costs incurred in executing this document. These costs shall not be more than \$150.00 each.

8. This agreement shall be binding upon and shall inure to the benefit of the heirs, personal representatives, administrators, successors and assigns to the parties hereto.

9. Kohtz (Idaho Water Company) has no control over the amount of mitigation or writedown IDWR will require of Buyers particular mitigation, therefore the amount Buyer pays is based on the amount of water transferred out of the original Water Right.

OTHER PROVISIONS

IN WITNESS WHEREOF the parties have caused their names to be subscribed on the dates set forth above.

SELLERS

BUYERS

Idaho Water Co.
Salt Lake
Columbia Foods, Inc.