

MEMORANDUM

DATE: March 10, 2008

TO: Gary Spackman

FROM: Shelley W. Keen *SWK*

RE: Basin 15 Appropriations

The attached spreadsheet shows that IDWR has issued over 70 permits in Basin 15 in the past decade. Most of them are for irrigation using ground water. When we saw that Application 15-7285 had two late protests, we decided to look at the water supply and injury questions just to educate ourselves about the water supply in that basin. Can it sustain the level of development that IDWR has permitted? What is the connection between ground water and surface water? Is Basin 15 headed for an ESPA-like conflict between ground water appropriator's and surface water users? At our request, Dennis Owsley summarized the literature on Basin 15 and made some educated guesses about the potential impacts of this application. His report is in the file for 15-7275.

Dennis found very little recent information about water availability in Basin 15, and there is no water district to consult about surface water. Although Dennis suggested that the proposal in Application 15-7285 could cause substantial drawdowns in nearby wells and even deplete water from the Malad River, we eventually decided that his data was not sufficient for us to deny this application. (See the 3/10/2008 memo by Jeff Harris.) We could require the applicant to study the water supply and injury potential related to this application, but it seemed unfair to impose that burden on one water user when so many others have received recent approvals.

Has IDWR considered the water supply situation in Basin 15? Should some of the \$20 million for aquifer studies be spent there? Should IDWR require some data collection in connection with new approvals? Intuitively it just seems like a lot of development is proposed for a small basin. Ground water may be sufficient to sustain the proposed development, but a connection between surface water and unconfined ground water could result in conflict if ground water pumping reduces surface water flows.

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Basin	Sequence	Suffix	Type	Status	Priority Date	Rate(cfs)	Volume(af)	Source	Water Use(s)
15	2073		Permit	Active	10/17/1935		1000.0	THIRD CREEK	IRRIGATION FROM STORAGE, IRRIGATION STORAGE
15	7037		Permit	Active	3/28/1977	3.20		GROUND WATER	IRRIGATION
15	7080		Permit	Active	10/28/1981	0.06		SPRING	STOCKWATER
15	7083		Permit	Active	8/5/1982	0.40		GROUND WATER	DOMESTIC, IRRIGATION
15	7103		Permit	Active	5/22/1987		3.0	UNNAMED STREAM	STOCKWATER STORAGE, WILDLIFE STORAGE
15	7104		Permit	Active	5/22/1987		1.0	UNNAMED STREAM	STOCKWATER STORAGE, WILDLIFE STORAGE
15	7105		Permit	Active	5/22/1987		1.0	UNNAMED STREAM	STOCKWATER STORAGE, WILDLIFE STORAGE
15	7106		Permit	Active	10/26/1987	0.16		SPRING	DOMESTIC, IRRIGATION
15	7108		Permit	Active	9/28/1988	4.58		GROUND WATER	IRRIGATION
15	7110		Permit	Active	12/30/1988	3.20		GROUND WATER	IRRIGATION
15	7115		Permit	Active	12/21/1989	0.46		GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER
15	7117		Permit	Active	1/19/1990	3.00		GROUND WATER	IRRIGATION
15	7120		Permit	Active	1/23/1990	0.29		GROUND WATER	IRRIGATION
15	7121		Permit	Active	1/23/1990	0.64		GROUND WATER	IRRIGATION
15	7118		Permit	Active	2/25/1990	3.22		TWOMILE CREEK	IRRIGATION
15	7122		Permit	Active	4/17/1990	0.10		SPRING	IRRIGATION, STOCKWATER
15	7126		Permit	Active	4/17/1990	0.10		SPRING	IRRIGATION, STOCKWATER
15	7127		Permit	Active	3/29/1991	3.04		GROUND WATER	IRRIGATION
15	7128		Permit	Active	4/8/1991	5.28		GROUND WATER	IRRIGATION
15	7129		Permit	Active	5/29/1991	5.60		GROUND WATER	IRRIGATION
15	7130		Permit	Active	7/22/1991	0.42		GROUND WATER	IRRIGATION
15	7132		Permit	Active	9/12/1991	6.26		GROUND WATER	IRRIGATION
15	7133		Permit	Active	9/30/1991	1.20		GROUND WATER	IRRIGATION
15	7135		Permit	Active	12/13/1991	2.00		GROUND WATER	IRRIGATION, RECREATION
15	7134		Permit	Active	12/30/1991	2.51		GROUND WATER	IRRIGATION
15	7136		Permit	Active	2/21/1992	1.36		GROUND WATER	IRRIGATION
15	7137		Permit	Active	2/21/1992	3.20		GROUND WATER	IRRIGATION
15	7141		Permit	Active	5/6/1993	4.80		GROUND WATER	IRRIGATION
15	7142		Permit	Active	1/19/1994	2.00		GROUND WATER	IRRIGATION
15	7144		Permit	Active	4/21/1994	0.50		GROUND WATER	IRRIGATION
15	7143		Permit	Active	4/26/1994	4.24		GROUND WATER	IRRIGATION
15	7145		Permit	Active	5/17/1994	0.04		SECRET SPRING, SPRINGS	STOCKWATER
15	7146		Permit	Active	9/20/1994	0.49		GROUND WATER	IRRIGATION
15	7147		Permit	Active	10/3/1994	2.00		GROUND WATER	IRRIGATION
15	7151		Permit	Active	4/7/1995	2.23		GROUND WATER	MUNICIPAL
15	7149		Permit	Active	4/20/1995	3.00		GROUND WATER	IRRIGATION
15	7150		Permit	Active	4/24/1995	1.16		GROUND WATER	IRRIGATION
15	7152		Permit	Active	4/28/1995	3.00		GROUND WATER	IRRIGATION
15	7155		Permit	Active	9/30/1996	2.00		GROUND WATER	DOMESTIC, IRRIGATION
15	7156		Permit	Active	11/19/1996	1.88		GROUND WATER	IRRIGATION
15	7157		Permit	Active	12/23/1996	0.15		GROUND WATER	IRRIGATION
15	7158		Permit	Active	1/21/1997	0.80		GROUND WATER	IRRIGATION
15	7164		Application	Active	7/21/1997	1.60		GROUND WATER	IRRIGATION
15	7166		Permit	Active	12/2/1997	6.00		GROUND WATER	IRRIGATION
15	7167		Permit	Active	1/9/1998		1053.0	SPRING CREEK	IRRIGATION FROM STORAGE, IRRIGATION STORAGE
15	7168		Permit	Active	5/19/1998	0.01		SPRING	DOMESTIC, POWER, WILDLIFE
15	7169		Permit	Active	6/11/1998	0.03		SPRING	DIVERSION TO STORAGE, RECREATION STORAGE
15	7171		Permit	Active	2/1/1999	0.20		GROUND WATER	IRRIGATION
15	7170		Permit	Active	3/2/1999	0.08		GROUND WATER	DOMESTIC, IRRIGATION
15	7175		Permit	Active	8/30/1999	0.32		GROUND WATER	IRRIGATION, STOCKWATER
15	7176		Permit	Active	9/30/1999	2.23		GROUND WATER	IRRIGATION, STOCKWATER
15	7178		Application	Active	3/2/2000		1000.0	DEVIL CREEK	IRRIGATION FROM STORAGE, IRRIGATION STORAGE
15	7179		Permit	Active	4/10/2000	0.18		GROUND WATER	DOMESTIC, IRRIGATION
15	7184		Permit	Active	4/17/2000	4.76		GROUND WATER	IRRIGATION
15	7188		Permit	Active	6/9/2000	0.20		GROUND WATER	IRRIGATION
15	7189		Permit	Active	8/2/2000	0.90		GROUND WATER	IRRIGATION
15	7187		Permit	Active	8/6/2000	5.00		GROUND WATER	IRRIGATION

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15	7190	Permit	Active	8/29/2000	1.20	GROUND WATER	IRRIGATION
15	7191	Permit	Active	9/11/2000	0.80	GROUND WATER	IRRIGATION
15	7192	Permit	Active	12/18/2000	9.58	GROUND WATER	IRRIGATION
15	7193	Permit	Active	12/18/2000	8.80	GROUND WATER	IRRIGATION
15	7195	Permit	Active	3/6/2001	6.40	GROUND WATER	IRRIGATION, STOCKWATER
15	7198	Permit	Active	4/29/2001	0.18	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER
15	7199	Permit	Active	5/15/2001	0.14	GROUND WATER	DOMESTIC, IRRIGATION
15	7202	Permit	Active	6/27/2001	9.60	GROUND WATER	IRRIGATION
15	7203	Permit	Active	6/28/2001	8.00	GROUND WATER	IRRIGATION
15	7206	Permit	Active	7/24/2001	0.82	GROUND WATER	DOMESTIC, IRRIGATION
15	7201	Permit	Active	8/7/2001	0.26	GROUND WATER	IRRIGATION
15	7212	Permit	Active	8/27/2001	3.00	GROUND WATER	IRRIGATION
15	7216	Application	Active	10/10/2001	6.40	GROUND WATER	IRRIGATION
15	7217	Application	Active	10/10/2001	6.60	GROUND WATER	IRRIGATION
15	7215	Permit	Active	10/12/2001	4.00	GROUND WATER	IRRIGATION
15	7219	Application	Active	10/19/2001	4.80	GROUND WATER	IRRIGATION
15	7223	Permit	Active	2/26/2002	4.04	GROUND WATER	IRRIGATION
15	7224	Permit	Active	4/26/2002	2.00	GROUND WATER	IRRIGATION
15	7225	Permit	Active	5/16/2002	0.60	GROUND WATER	IRRIGATION
15	7226	Permit	Active	5/29/2002	0.60	GROUND WATER	IRRIGATION
15	7227	Permit	Active	6/3/2002	2.64	GROUND WATER	IRRIGATION
15	7228	Permit	Active	6/7/2002	0.38	GROUND WATER	IRRIGATION
15	7229	Permit	Active	7/13/2002	1.68	GROUND WATER	IRRIGATION
15	7231	Permit	Active	7/17/2002	3.00	GROUND WATER	IRRIGATION
15	7237	Permit	Active	12/6/2002	4.90	GROUND WATER	IRRIGATION
15	7236	Permit	Active	12/10/2002	0.20	GROUND WATER	DOMESTIC, IRRIGATION
15	7235	Permit	Active	12/12/2002	0.60	GROUND WATER	IRRIGATION
15	7238	Permit	Active	12/13/2002	3.40	GROUND WATER	IRRIGATION
15	7240	Permit	Active	2/8/2003	2.00	GROUND WATER	IRRIGATION
15	7241	Permit	Active	2/13/2003	0.30	GROUND WATER	DIVERSION TO STORAGE, IRRIGATION, RECREATION, RECREATION STORAGE
15	7242	Permit	Active	3/3/2003	0.14	GROUND WATER	IRRIGATION, STOCKWATER
15	7244	Permit	Active	4/21/2003	1.00	GROUND WATER	IRRIGATION
15	7245	Permit	Active	4/30/2003	0.10	GROUND WATER	IRRIGATION
15	7153	Permit	Active	5/5/2003	2.58	GROUND WATER	IRRIGATION
15	7247	Permit	Active	6/16/2003	1.80	GROUND WATER	IRRIGATION
15	7246	Permit	Active	6/30/2003	0.20	GROUND WATER	IRRIGATION
15	7252	Permit	Active	9/23/2003	2.30	GROUND WATER	IRRIGATION, STOCKWATER
15	7253	Permit	Active	9/25/2003	0.69	GROUND WATER	IRRIGATION
15	7254	Permit	Active	11/6/2003	1.96	GROUND WATER	IRRIGATION, STOCKWATER
15	7255	Permit	Active	12/4/2003	0.42	GROUND WATER	IRRIGATION
15	7256	Permit	Active	12/17/2003	2.18	GROUND WATER	IRRIGATION
15	7243	Permit	Active	2/26/2004	1.30	GROUND WATER	IRRIGATION
15	7258	Permit	Active	2/27/2004	0.20	GROUND WATER	AESTHETIC STORAGE, IRRIGATION, STOCKWATER
15	7259	Application	Active	3/23/2004	3.00	GROUND WATER	COMMERCIAL
15	7260	Permit	Active	6/7/2004	0.08	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER
15	7261	Permit	Active	6/17/2004	2.58	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER
15	7264	Permit	Active	8/16/2004	1.20	GROUND WATER	IRRIGATION
15	7265	Permit	Active	8/23/2004	2.48	GROUND WATER	IRRIGATION
15	7268	Permit	Active	12/31/2004	0.80	GROUND WATER	IRRIGATION, STOCKWATER
15	7269	Application	Active	3/28/2005	0.04	SPRING	STOCKWATER
15	7270	Permit	Active	4/5/2005	0.32	GROUND WATER	IRRIGATION
15	7271	Permit	Active	6/7/2005	0.80	GROUND WATER	DOMESTIC, IRRIGATION
15	7272	Application	Active	8/17/2005	0.46	POND	IRRIGATION
15	7275	Permit	Active	12/16/2005	1.00	THOMAS DAVIS SPRINGS	FIRE PROTECTION, IRRIGATION
15	7276	Application	Active	12/22/2005	4.00	GROUND WATER	IRRIGATION
15	7280	Permit	Active	4/12/2006	0.80	GROUND WATER	IRRIGATION
15	7281	Permit	Active	8/18/2006	0.20	SPRING	DIVERSION TO STORAGE, IRRIGATION, IRRIGATION FROM STORAGE, IRRIGATION STORAGE
15	7283	Permit	Active	8/28/2006	0.04	SPRING	DOMESTIC, STOCKWATER

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15	7232	Permit	Active	10/27/2006	0.12	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER
15	7284	Permit	Active	1/29/2007	3.96	GROUND WATER	IRRIGATION
15	7285	Application	Active	2/21/2007	4.88	GROUND WATER	IRRIGATION
15	7287	Permit	Active	5/2/2007	1.66	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER
15	7288	Permit	Active	6/20/2007	0.66	GROUND WATER	IRRIGATION, STOCKWATER
15	7289	Permit	Active	6/20/2007	3.80	GROUND WATER	IRRIGATION, STOCKWATER
15	7290	Permit	Active	6/26/2007	2.00	GROUND WATER	IRRIGATION
15	7174	Permit	Active	6/29/2007	2.88	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER
15	7292	Permit	Active	7/2/2007	0.14	GROUND WATER	DOMESTIC, IRRIGATION
15	7291	Permit	Active	7/5/2007	3.00	GROUND WATER	IRRIGATION
15	7293	Permit	Active	7/24/2007	0.80	GROUND WATER	IRRIGATION
15	7294	Permit	Active	8/6/2007	0.84	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER
15	7298	Permit	Active	9/26/2007	2.62	GROUND WATER	IRRIGATION
15	7300	Application	Active	12/10/2007	0.20	GROUND WATER	IRRIGATION
15	7299	Application	Active	12/11/2007	2.00	GROUND WATER	MUNICIPAL
15	7302	Application	Active	12/28/2007	0.13	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER