



City of Sidney, Nebraska

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November 1, 2005

State of Nebraska Department of
Natural Resources
301 Centennial Mall, 4th Floor
P.O. Box 94676
Lincoln, NE 68509-4676

Attention: Ms. Tracy Zayac

Dear Ms. Zayac:

This letter is submitted in response to yours of October 5, 2005.

Item #1 of your letter states in part "beds of low permeability, sandy silts, sandy clays, and silty clays are present throughout the formations that comprise the aquifer". The City has identified that this situation exists at the Northwest Well Field site where such clay layers separate the Upper Ogallala from the Lower Ogallala. However, we certainly agree, as noted in the meeting with Department personnel on October 27, 2005, with the statement in your item #1 reference the regional nature of the aquifer that "the Ogallala is generally semi-confined". The City hereby modifies the answer submitted to Question #6 in your first set of questions, stating that the Ogallala on the benchland between the Lodgepole Creek and the North Platte River is a semi-confined/confined aquifer system by deleting the word "confined" in the second sentence of the answer so that the sentence is modified to read "The Ogallala on the benchland between the Lodgepole Creek and the North Platte River is a semi-confined aquifer system."

As regards number 2 of the October 5, 2005 letter, please find enclosed an attachment showing withdrawals each year for the past ten years for domestic use for Sidney and Sioux Meadows. As regards subsection (b), we are aware of no industrial or other non-domestic uses at the Sioux Meadows properties for the years 1995 through 2004, but have been able to make a determination of industrial and other non-domestic uses in Sidney which information is attached. The domestic use figure is calculated by subtracting industrial, city parks, pool and lagoon and car wash use from the total use submitted to you by earlier cover for the years 1995 through 2004.

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NOV 07 2005

DEPARTMENT OF
NATURAL RESOURCES

"Small Town Values, Big Time Opportunities"

LDY

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Please find enclosed average daily use calculated over the 1995 - 2004 time period.

As regards Item #3, the Sidney Wastewater Treatment Plant is located on the south side of Lodgepole Creek immediately west of L-17-J where the roadway passes over Lodgepole Creek. This location is on the east side of the City of Sidney within the corporate limits. Please note that the Wastewater Treatment Plant discharge figures below do not take into account return to groundwater through pipe leakage, watering of lawns, golf course, parks, or lagoon additions:

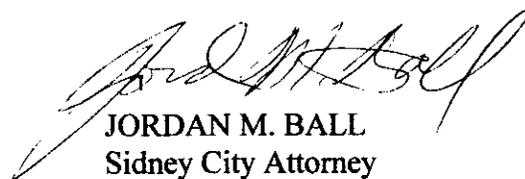
1995	237,484,000	2000	248,798,000
1996	231,259,000	2001	244,574,000
1997	235,717,000	2002	248,488,000
1998	260,363,000	2003	257,036,000
1999	254,429,000	2004	249,919,000

The treated waste water during the years listed was discharged to Lodgepole Creek near the site of the Wastewater Treatment Plant. There is no surface water flow other than the discharge at the discharge site except during large storms which occur infrequently. Lodgepole Creek is dry from approximately five miles west of Sidney to the discharge site. All discharged water returns to ground approximately two miles east of the Treatment Plant.

Sioux Meadows discharges used water to a leach field. This discharge is not metered. Those businesses at the Sioux Meadows location which are not connected to the old Sioux Meadows leach field system operate septic disposal systems. We do not have records of any pumped amounts from the three wells that supplied Sioux Meadows prior to the completion of the Northwest Well Field as these wells have never been metered.

We appreciate your consideration of the Permit Application and trust that with the information provided, you can proceed to issue the Transfer Permit in the amount requested.

Sincerely,



JORDAN M. BALL
Sidney City Attorney

JMB:mjd

Enclosures

**AVERAGE ANNUAL DAILY USE
SIDNEY ONLY**

<u>Year</u>	<u>Daily Average</u>
1995	1,725,844
1996	1,818,039
1997	1,896,800
1998	1,942,957
1999	1,801,135
2000	2,372,025
2001	2,141,735
2002	2,079,524
2003	1,887,222
2004	1,784,513

**SIOUX MEADOWS
(ESTIMATE)**

1995-2004 273,973

**SIDNEY AND SIOUX MEADOWS
COMBINED DAILY AVERAGE**

<u>Year</u>	<u>Daily Average</u>
1995	1,999,817
1996	2,092,012
1997	2,170,773
1998	2,216,930
1999	2,075,108
2000	2,645,998
2001	2,415,708
2002	2,353,497
2003	2,161,195
2004	2,058,486

**ADDITIONAL
INFO. FILED** NOV 07 2005

Industrial and Other Non-Domestic Use

1995	102,997,000
1996	125,382,000
1997	85,450,000
1998	80,464,000
1999	142,558,000
2000	201,537,000
2001	181,962,000
2002	188,249,000
2003	154,162,000
2004	172,931,000

- 1) Included are a) Hillside Golf Course, b) Businesses who use water in manufacturing or incorporate water in product (Krone Digital/ADC, Milestone Redi-Mix, Farmer's Elevator Chemical Building), c) city parks, swimming pool and lagoon, d) car wash use.
- 2) The following were contacted and state that they do not use water in their manufacturing process or incorporate water in a product: Anderson Forest Products, Convert-A-Ball, Conserve Company, Glover Industries, Goodwin Machine Shop, Virgil Lehmkuhler Ironworks, Jerry Spiker Metalwork.
- 3) Commercial Resins and Performax Stone, both of which were established at Sioux Meadows in 2005 have an industrial use but no history of use as they only recently began business operations at that site.

Domestic Use

Sidney and Sioux Meadows

(Total Pumped Minus Industrial, City Park and Car Wash Use)

1995	627,036,000
1996	638,902,000
1997	706,982,000
1998	728,865,000
1999	614,956,000
2000	765,203,000
2001	705,142,000
2002	672,055,000
2003	635,978,000
2004	573,158,000

