



ENVIRONMENT

LICENCE to DIVERT AND USE WATER

Pursuant to the
WATER RESOURCES ACT

File No. 16462

Priority No. 1990-01-16-02

Purpose Municipal

Drainage Basin Bow River

First Issued 1990 02 05

Elbow River Estates Co-Operative Ltd
Box 41, Site 6, R.R. 1
Calgary, Alberta
T2P 2G4

HAVING COMPLIED with the applicable provisions of the Water Resources Act and the regulations thereunder and Interim Licence No. 16891, a copy of which is attached hereto and incorporated herein,

IS HEREBY GRANTED LICENCE to divert and use the quantities of water prescribed in the Interim Licence in accordance with and subject to all other applicable provisions of that Act and the regulations thereunder, and the terms and conditions attached hereto and incorporated herein at locations described in the Interim Licence,

BY MEANS AND THROUGH works and undertakings described in the Interim Licence.

1990 02 05

Date



Alberta

ENVIRONMENT

INTERIM LICENCE

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WATER RESOURCES ACT

Nº 16891

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having complied with the applicable provisions of the Water Resources Act and the regulations thereunder is hereby authorized, as soon as right-of-way is obtained:

A. To construct works as shown on plans and reports filed, approved and identified in departmental records as:

16462-R6 Aquifer Performance Evaluation
Elbow River Estates Groundwater Source Wells
SW 11-24-3-W5M

B. To divert and use water as hereinafter specified and described subject to the terms and conditions attached hereto and incorporated herein:

PURPOSE: Municipal (Subdivision Water Supply)

SOURCE OF SUPPLY: Aquifer through the works of Well No. 2

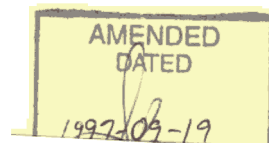
GROSS DIVERSION: Up to 17 acre-feet (4.6 million Canadian gallons)
per annum consisting of:

1. Estimated Consumptive Use: 4.6 million gallons
2. Estimated Losses: NIL
3. Estimated Return Flow: NIL

POINT OF DIVERSION	WELL NUMBER	PRODUCTION INTERVAL	MAXIMUM PUMP RATE	MAXIMUM ANNUAL DIVERSION
6-11-24-3-5	75-01-30-04	65' - 90' * 52' - 93'	60 Cgpm	4.6 mCg

*

The term within which construction is to be completed expires on N/A



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TERMS AND CONDITIONS INTERIM LICENCE NO. 16891

(1) The holder of this interim licence shall on and after the effective date of this interim licence, at his own expense, investigate all written complaints relating to surface or ground water in connection with the pumping authorized under this interim licence, originating within one (1) mile(s) of the licensee's works and undertakings.

(2) The licensee shall submit a report giving the results of any investigation to the Controller of Water Resources within 15 working days of the receipt of the complaint.

(3) Complaints beyond the one (1) mile limit described in 1(1) may be investigated by Alberta Environment at the discretion of the Controller of Water Resources.

2 (1) Where after the effective date of this interim licence the Controller of Water Resources on the basis of information:

(a) Contained in the licensee's report on investigations into a complaint, or

(b) Independently obtained by the Controller of Water Resources,

becomes satisfied that any water wells or any other natural water sources, existing on the effective date of this interim licence and used regularly after that date, have been unreasonably interfered with by the licensee's works and undertakings, the licensee shall, upon the direction of the Controller of Water Resources satisfy the Controller of Water Resources in writing that he has completed satisfactory arrangements with the owners of such wells or other natural water sources to modify such wells or other water sources or to construct for the owners new water wells or other alternative supplies of water satisfactory to the owners and the Controller of Water Resources.

(2) If the licensee fails to satisfy the Controller of Water Resources with respect to the matters prescribed in subsection (1), on or before date prescribed by the Controller of Water Resources, this interim licence may be terminated on the prescribed date.

3 The production well(s) shall meet the following criteria:

(a) Constructed so as to permit water level readings to be taken once per month while the pump is operating.

(b) Equipped with a cumulative meter which registers the number of gallons or cubic metres pumped.

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4. If deemed necessary by the Controller of Water Resources the licensee shall obtain water samples for purposes of chemical analyses from the production well(s). The analyses must include total dissolved solids pH, Ca, Mg, Na+K, CO₃, HCO₃, SO₄, Cl, Fe and NO₃.
- 5 If deemed necessary by the Controller of Water Resources, the licensee may be required to install and equip an observation well or wells, completed in the same aquifer as the production well(s), to provide data for the evaluation of the effect of this withdrawal on the aquifer and the effect on other ground water users.
- 6 The licensee shall submit an annual return to the Controller of Water Resources on or before January 31 in each year for the preceding calendar year including:

Tables containing:

- (1) Monthly measurement of the water level in the pumping well(s) as per clause(s) 3(a). The dates and times at which readings were taken must be included.
 - (2) Monthly readings of the number of Canadian gallons or cubic metres pumped from the well(s) as per clause(s) 3(b). The dates and times at which readings were taken must be included
- (b) The total annual quantity pumped expressed in Canadian gallons and acre-feet or in cubic metres,

and such other information as may from time to time be required

- 7 When requested to do so by the Controller of Water Resources, the licensee shall have the annual return detailed in clause 6 prepared, in whole or in part, by a qualified ground water consultant who is a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
- 8 This interim licence and the attached terms and conditions are based on knowledge available at the time of issue and therefore the Controller of Water Resources reserves the right to revise the following portions of the interim licence and attached terms and conditions:

Gross diversion

Maximum pumping rate;

Number, type and location of observation wells required;

Frequency and method of measurement of observation wells,

any time that the Controller of Water Resources has information indicating unreasonable interference with water supplies which cannot be satisfactorily remedied or that damage to aquifer ~~is occurring~~

9. The rights and privileges hereby granted are subject to periodic review and to modification to ensure the most beneficial use of the water in the public interest and more particularly to ensure preservation of the rights of other water users.
10. The rights and privileges hereby granted can only be extended, modified, transferred or assigned with the approval of the Controller of Water Resources and are subject to cancellation or modification as provided in the Water Resources Act.
- 11 This interim licence and its terms and conditions shall be attached to and become part of the licence to use water issued pursuant to Section 33 of the Water Resources Act.

1990 02 05

Dated at Edmonton