

-2-

11. CHLORIDE - The recommended limit is 250 mg/L. Chloride content is usually low and an increase may indicate a nearby source of pollution (particularly if NO<sub>2</sub> and NO<sub>3</sub> and nitrite are high). Some wells contain naturally occurring chlorides. A salty taste may be evident.
12. ALKALINITY T (Total) - Alkalinity below 500 mg/L is generally accepted. Excessive alkalinity may result in incrustations on utensils, service pipes and water heaters.
13. BICARBONATE - Upper limit not established. Relates to alkalinity as bicarbonate of sodium, calcium and magnesium.

NOTE: mg/L = milligrams per litre.

The preceding notes and standards are for your guidance only based on an intake of 2 litres of water per day. The figures may be interpreted in a variety of ways and the public health inspector for your area can be contacted for further advice.  
Telephone: Stony Plain - 963-2206; Spruce Grove - 962-4072; Whitecourt - 778-5555.

For stock water and other agricultural uses the requirements are not necessarily the same as for domestic use. Please consult your District Agriculturalist for that kind of advice.

## Additional Information

### VIDEOS

Will the Well Go Dry Tomorrow? (Mow-Tech Ltd.: 1-800 GEO WELL)  
Water Wells that Last (PFRA – Edmonton Office: 780-495-3307)  
Ground Water and the Rural Community (Ontario Ground Water Association)

### BOOKLET

Water Wells that Last (PFRA – Edmonton Office: 780-495-3307)

### ALBERTA ENVIRONMENT

#### WATER WELL INSPECTORS

Jennifer McPherson (Edmonton: 780-427-6429)

#### GEOPHYSICAL INSPECTION SERVICE

Edmonton: 780-427-3932

#### COMPLAINT INVESTIGATIONS

Blair Stone (Red Deer: 403-340-5310)

### UNIVERSITY OF ALBERTA – Department of Earth and Atmospheric Sciences - Hydrogeology

Carl Mendoza (Edmonton: 780-492-2664)

### UNIVERSITY OF CALGARY – Department of Geology and Geophysics - Hydrogeology

Larry Bentley (Calgary: 403-220-4512)

### FARMERS ADVOCATE

Paul Vasseur (Edmonton: 780-427-2433)

### PRAIRIE FARM REHABILITATION ADMINISTRATION

Ryan Davison (Medicine Hat: 403-526-2429)

Terry Dash (Calgary: 403-292-5719)

### LOCAL HEALTH DEPARTMENTS

**CYPRESS COUNTY**

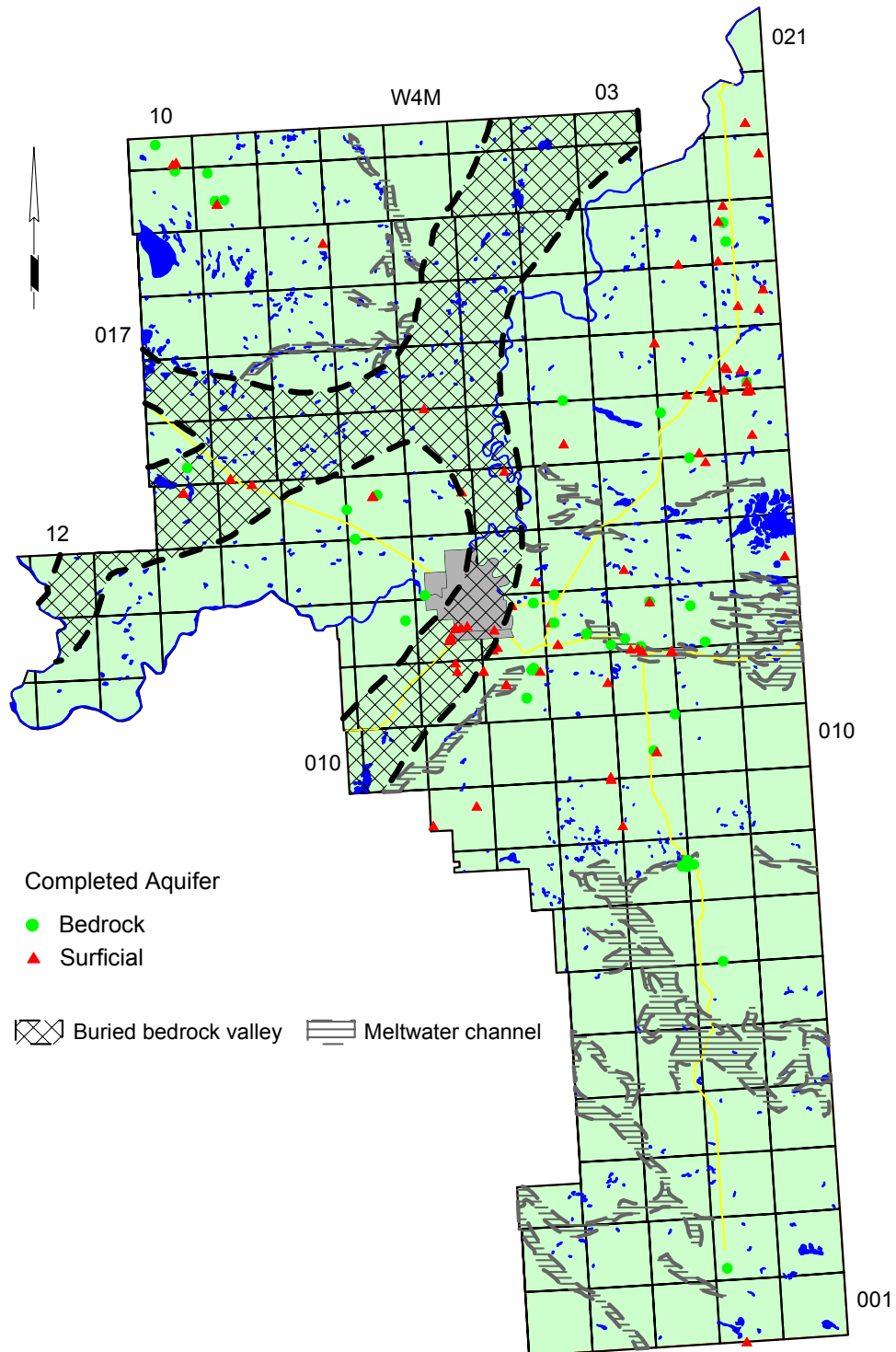
**Appendix E**

**Water Wells Recommended for Field Verification**

**and**

**County-Operated Water Wells**

**Water Wells Recommended for Field Verification**  
*(details on following pages)*



**WATER WELLS RECOMMENDED FOR FIELD VERIFICATION**

Owner	Location	Name	Well Drilled	Aquifer		Date Water		Completed Depth		NPWL		UID
				Metres	Feet	Metres	Feet	Metres	Feet	Metres	Feet	
Alberta Energy Company Ltd.	04-04-016-06 W4M	Lower Surficial	03-Aug-98	103.0	337.9	15.5	50.7	M36290.700398				
Alberta Environment	02-04-007-02 W4M	Bearpaw	12-Mar-85	30.2	99.0	16.1	52.7	M35377.116568				
Alberta Environment	06-24-008-03 W4M	Horseshoe Canyon	28-Sep-84	33.5	110.0	10.9	35.6	M35377.149387				
Alberta Environment	16-10-012-04 W4M	Lower Surficial	14-Sep-84	36.0	118.0	3.9	12.8	M35377.088322				
Alberta Environment	07-05-015-09 W4M	Lower Surficial	10-Mar-85	111.3	365.0	44.2	144.9	M35377.129057				
Alberta Environment	16-10-012-04 W4M	Oldman	13-Sep-84	73.8	242.0	4.6	15.0	M35377.089307				
Alberta Environment	04-08-002-02 W4M	Oldman	13-Mar-85	79.9	262.0	20.4	66.9	M35377.097190				
Alberta Environment	11-02-020-10 W4M	Upper Surficial	12-Nov-85	7.6	25.0	4.6	15.0	M35377.089310				
Alberta Transportation	SW 08-012-04 W4M	Lower Surficial	20-May-82	12.2	40.0	6.0	19.8	M35377.120442				
Allan Reuer	NW 20-018-01 W4M	Oldman	06-Sep-84	82.3	270.0	24.4	80.0	M35377.119638				
Amos, Helen E.	04-23-012-06 W4M	Upper Surficial	08-Apr-81	7.9	26.0	3.1	10.0	M35377.137770				
Atlantic Richfield	10-10-015-10 W4M	Foremost	01-Jun-73	76.8	252.0	42.8	140.4	M35377.138264				
Bechtold, Allan	SE 06-014-07 W4M	Oldman	26-May-78	39.6	130.0	15.2	50.0	M35377.138020				
Bertrand, Wally	SE 19-012-04 W4M	Oldman	04-Oct-85	13.7	45.0	12.8	42.0	M35377.085211				
Bill Fischer	NW 32-018-01 W4M	Upper Surficial	26-Oct-79	9.1	30.0	4.6	15.0	M35377.119717				
Bjelland, Dennis	SW 16-020-10 W4M	Oldman	01-Apr-72	56.1	184.0	18.3	60.0	M35377.110967				
Brost Bros.	09-27-012-03 W4M	Oldman	07-Nov-80	92.7	304.0	61.0	200.0	M35377.120405				
Brost Bros.	09-27-012-03 W4M	Upper Surficial	07-Aug-81	26.8	88.0	4.0	13.0	M35377.120408				
Bullanda, Ted	NW 30-011-05 W4M	Lower Surficial	18-Sep-76	61.0	200.0	20.1	66.0	M35377.136784				
Canadian Customs/DPW	SW 04-001-02 W4M	Lower Surficial	27-Aug-76	18.3	60.0	6.7	22.0	M35377.085327				
Clark, Jerry	SW 26-009-06 W4M	Lower Surficial	05-Aug-81	11.6	38.0	4.3	14.0	M35377.129847				
Cotton, Ted	SE 19-012-04 W4M	Lower Surficial	01-Aug-79	6.7	22.0	5.2	17.0	M35377.120500				
Crandall, Ken	NE 36-010-03 W4M	Bearpaw	29-Nov-85	10.7	35.0	3.1	10.0	M35377.121192				
Department Public Works Pw#1	16-24-008-03 W4M	Bearpaw	20-Jul-63	33.2	109.0	11.7	38.5	M35377.120099				
Dietz, Tony & Albert	NW 17-012-05 W4M	Lower Surficial	16-Aug-78	14.9	49.0	7.3	24.0	M35377.137592				
Dola, Dale	02-22-012-06 W4M	Upper Surficial	21-Jun-77	6.7	22.0	3.1	10.0	M35377.137526				
Dola, Henry	02-22-012-06 W4M	Upper Surficial	22-Nov-73	6.4	21.0	3.1	10.0	M35377.137521				
Duchscherer, Joe	SW 06-016-01 W4M	Upper Surficial	27-Jun-75	7.6	25.0	6.1	20.0	M35377.119662				
Ellis Ranching Co. Ltd.	NW 34-014-05 W4M	Lower Surficial	18-May-89	49.1	161.0	36.9	121.0	M35377.119897				
Engel, Dorne	NE 20-012-02 W4M	Oldman	22-Jul-77	163.1	535.0	15.2	50.0	M35377.117073				
Fai, Ron	01-16-012-06 W4M	Lower Surficial	16-Apr-83	48.8	160.0	12.2	40.0	M35377.137459				
Fred Kirschenman	SE 30-018-01 W4M	Upper Surficial	16-Nov-83	7.3	24.0	4.6	15.0	M35377.119670				
Freimark, Vern	SW 08-012-03 W4M	Oldman	10-Sep-88	11.3	37.0	4.6	15.0	M35377.120387				
Frisch, Herb	08-04-012-02 W4M	Oldman	14-Dec-67	73.2	240.0	48.8	160.0	M35377.117054				
Geigle, Harvey	NE 08-013-03 W4M	Upper Surficial	06-Aug-88	9.1	30.0	2.7	9.0	M35377.120760				
Gerhard Brost Const Ltd.	NE 26-011-05 W4M	Foremost	05-Sep-79	103.6	340.0	33.5	110.0	M35377.136750				
Grisak, Ken	NW 34-011-06 W4M	Upper Surficial	01-Jun-85	38.1	125.0	6.4	21.0	M35377.136946				
Gust, Sam	SW 03-016-04 W4M	Oldman	07-Nov-84	110.0	361.0	53.0	174.0	M35377.120113				
Hagel, Bob	NW 33-015-01 W4M	Upper Surficial	27-Jun-79	9.1	30.0	4.6	15.0	M35377.120203				
Hagel, Clarence	SE 02-016-02 W4M	Upper Surficial	11-Apr-84	9.1	30.0	4.3	14.0	M35377.119930				
Hagel, Robert J.	13-33-015-01 W4M	Upper Surficial	09-Mar-92	21.9	72.0	4.6	15.0	M35377.096380				
Harlburt, Wayne	SW 16-019-09 W4M	Upper Surficial	01-Sep-73	15.2	50.0	5.5	18.0	M35377.114099				
Hartung, Clay	SW 08-012-05 W4M	Lower Surficial	20-Sep-82	6.7	22.0	1.8	6.0	M35377.137479				
Heller, Wayne	SE 14-013-01 W4M	Lower Surficial	07-Sep-82	6.4	21.0	2.4	8.0	M35377.117534				
Herman, Ted	NW 05-012-05 W4M	Lower Surficial	03-Mar-75	12.8	42.0	3.7	12.0	M35377.137306				
Herrmann, Edward	SE 03-015-02 W4M	Upper Surficial	12-Apr-84	9.1	30.0	4.6	15.0	M35377.120265				
Herrmann, James	NE 33-014-02 W4M	Bearpaw	07-Aug-82	11.6	38.0	5.8	19.0	M35377.119677				
Herrmann, Robin	NE 09-015-04 W4M	Upper Surficial	10-Aug-88	36.0	118.0	27.1	89.0	M35377.120989				
Herter, Claig	SW 30-015-02 W4M	Bearpaw	08-Jul-82	17.7	58.0	9.1	30.0	M35377.120615				
Houff, Brian	12-21-011-05 W4M	Lower Surficial	23-Apr-80	11.3	37.0	9.5	31.0	M35377.135801				
Hulme, Doug	01-26-012-07 W4M	Foremost	18-Sep-75	77.7	255.0	12.2	40.0	M35377.137328				
Hurlburt, Wayne	NE 16-019-09 W4M	Oldman	05-Mar-75	127.1	417.0	29.0	95.0	M35377.114108				
Jackson, Ray	NE 26-011-05 W4M	Foremost	24-Aug-79	103.6	340.0	57.9	190.0	M35377.136739				
Kahle, Eric	NW 32-012-04 W4M	Foremost	02-Nov-79	101.8	334.0	24.4	80.0	M35377.120590				
Kallenberger, Lane	NW 25-011-05 W4M	Lower Surficial	21-Mar-84	45.4	149.0	24.4	80.0	M35377.136691				

**WATER WELLS RECOMMENDED FOR FIELD VERIFICATION (continued)**

Owner	Location	Aquifer Name	Date Water Well Drilled	Completed Depth		NPWL		UID
				Metres	Feet	Metres	Feet	
Kleinknecht, Edline	13-18-014-07 W4M	Oldman	28-May-86	71.3	234.0	34.1	112.0	M35377.138052
Knesh, Nick	03-12-013-05 W4M	Upper Surficial	07-Mar-78	6.7	22.0	3.1	10.0	M35377.137626
Knutson, Murray	NE 17-019-09 W4M	Oldman	22-Jan-76	75.6	248.0	36.6	120.0	M35377.114145
Kock, Jim	04-15-012-06 W4M	Lower Surficial	06-Apr-83	46.6	153.0	13.7	45.0	M35377.137284
Liboiron, James	NW 35-019-10 W4M	Bearpaw	07-Dec-76	49.1	161.0	39.6	130.0	M35377.114151
Liboiron, Jim	SW 02-020-10 W4M	Upper Surficial	11-Jun-82	14.6	48.0	6.1	20.0	M35377.110881
M.D. of Cypress	NW 34-014-09 W4M	Lower Surficial	21-Sep-87	116.7	383.0	43.7	143.3	M35377.138114
Mazer, Geo	SW 08-012-05 W4M	Lower Surficial	21-Sep-82	11.0	36.0	3.7	12.0	M35377.137470
Mcdougald	SE 33-014-10 W4M	Lower Surficial	12-Dec-70	105.2	345.0	43.6	143.0	M35377.138174
Nieman, Evult	SE 15-011-05 W4M	Foremost	21-Jun-77	143.3	470.0	61.0	200.0	M35377.135725
North Can Oils	13-09-017-01 W4M	Upper Surficial	12-Aug-77	34.1	112.0	13.7	45.0	M35377.114515
Olson, Kenneth	SW 32-019-09 W4M	Oldman	28-Feb-86	115.5	379.0	50.6	166.0	M35377.136622
Pasciel, Walter	02-34-011-06 W4M	Lower Surficial	24-Nov-78	9.1	30.0	2.1	7.0	M35377.136931
Pender, Rob	SE 15-010-03 W4M	Upper Surficial	19-Nov-79	10.7	35.0	6.1	20.0	M35377.120943
Pender, Robert	SW 15-010-03 W4M	Oldman	05-Feb-86	217.9	715.0	196.0	643.0	M35377.120968
Pfeifer, Lawrence	12-07-009-03 W4M	Lower Surficial	13-Aug-84	6.1	20.0	1.8	6.0	M35377.120417
Phaff, Reginald J.	SE 05-012-03 W4M	Upper Surficial	19-Aug-88	13.7	45.0	6.1	20.0	M35377.120334
Phoenix Constructors	SE 10-020-01 W4M	Upper Surficial	12-Aug-82	22.6	74.0	7.3	24.0	M35377.114281
Pisli, Howard	SE 23-017-01 W4M	Upper Surficial	14-Mar-80	20.1	66.0	7.6	25.0	M35377.120315
Pinder, Edward	02-24-011-04 W4M	Upper Surficial	23-Apr-80	15.9	52.0	5.2	17.0	M35377.095367
Public Works - Supply Services	SW 08-012-04 W4M	Lower Surficial	06-Nov-85	14.6	48.0	6.7	22.0	M35377.120444
Pudwell, Philip	SW 36-012-05 W4M	Foremost	01-Jul-74	96.0	315.0	30.5	100.0	M35377.137753
Rath, Marvin	NW 36-009-04 W4M	Upper Surficial	14-Sep-88	4.3	14.0	1.8	6.0	M35377.120848
Rath, Marvin	SW 01-010-04 W4M	Upper Surficial	15-Sep-88	3.7	12.0	1.8	6.0	M35377.121221
Roseglen Colony	SE 04-018-02 W4M	Upper Surficial	16-Jun-77	7.9	26.0	2.4	8.0	M35377.119812
Roseglen Colony	SE 04-018-02 W4M	Upper Surficial	16-Jun-77	7.9	26.0	2.9	9.4	M35377.119812
Roth, Leslie	NE 33-015-02 W4M	Upper Surficial	26-May-78	5.5	18.0	2.4	8.0	M35377.120678
Ruben Ehret	SW 17-018-01 W4M	Oldman	25-Jul-79	130.5	428.0	26.5	87.0	M35377.119557
Schafer, Brian	SE 18-016-01 W4M	Upper Surficial	01-Mar-74	4.3	14.0	3.1	10.0	M35377.119761
Schafer, Leo	NE 09-015-01 W4M	Upper Surficial	08-Mar-77	17.7	58.0	10.7	35.0	M35377.120136
Schatz, Art	NW 11-017-01 W4M	Upper Surficial	19-Jul-77	29.9	98.0	9.1	30.0	M35377.120208
Schick, Lloyd	SW 25-019-01 W4M	Upper Surficial	01-Sep-77	7.3	24.0	4.6	15.0	M35377.114097
Schreiber, Stan	16-23-014-06 W4M	Upper Surficial	03-Sep-80	11.3	37.0	5.8	19.0	M35377.138195
Stenhouse, Robert	NW 18-009-06 W4M	Lower Surficial	13-Oct-84	102.4	336.0	51.8	170.0	M35377.129830
Town of Elkwater	08-24-008-03 W4M	Horseshoe Canyon	01-May-73	61.0	200.0	35.4	116.0	M35377.120018
Town of Elkwater	06-19-008-02 W4M	Horseshoe Canyon	23-Oct-81	40.2	132.0	23.5	77.2	M35377.120037
Town of Irvine	NE 36-011-03 W4M	Lower Surficial	19-May-75	59.1	194.0	11.6	38.0	M35377.119808
Trainer, Ken	05-15-012-06 W4M	Lower Surficial	14-Jul-83	56.7	186.0	24.4	80.0	M35377.137287
Trd Bldg Sales	SE 23-012-06 W4M	Upper Surficial	15-Oct-81	8.5	28.0	4.3	14.0	M35377.137576
Ulrich, Donald	SW 35-014-02 W4M	Upper Surficial	23-Apr-85	32.6	107.0	26.8	88.0	M35377.119690
Unreiner, Tony	NW 30-016-02 W4M	Upper Surficial	12-Apr-77	23.8	78.0	17.1	56.0	M35377.087048
Vossler, Roy	SE 06-013-06 W4M	Foremost	13-Aug-79	11.9	39.0	6.3	20.7	M35377.137734
Weisgerber, Charles	SW 36-015-02 W4M	Upper Surficial	10-Apr-81	11.6	38.0	3.1	10.0	M35377.120726
Weisgerber, John	NE 08-016-01 W4M	Upper Surficial	08-Jul-82	7.3	24.0	3.4	11.0	M35377.119685
Weisgerber, Tom	NE 33-015-01 W4M	Upper Surficial	01-Sep-74	9.1	30.0	3.1	10.0	M35377.120224
Weisner, E. G. Douglas	12-06-012-03 W4M	Oldman	20-May-83	51.8	170.0	29.9	98.0	M35377.120355
West Coast Petroleum Ltd.	03-25-018-08 W4M	Upper Surficial	16-Jun-76	8.5	28.0	1.5	4.8	M35377.138306
Will, William	08-04-012-03 W4M	Oldman		66.1	217.0	0.6	2.0	M35377.120280
Will, William	02-04-012-03 W4M	Upper Surficial	06-Mar-78	6.1	20.0	3.1	10.0	M35377.120276
Wittervrongel, M. J.	02-28-014-07 W4M	Upper Surficial	09-Jun-76	32.9	108.0	16.8	55.0	M35377.138058
Wittervrongel, Norman	SE 28-014-07 W4M	Oldman	16-Sep-81	56.7	186.0	13.7	45.0	M35377.138060
Wright, Dave & Sylvia	NW 27-012-05 W4M	Lower Surficial	28-Aug-75	74.1	243.0	71.6	235.0	M35377.137666
Wuerfel, Walter	SW 06-018-01 W4M	Upper Surficial	22-Jun-78	14.6	48.0	7.6	25.0	M35377.119469
Wunsch, Gordon	16-33-011-03 W4M	Upper Surficial	02-Mar-78	7.9	26.0	3.1	10.0	M35377.119716
Zahn, Don	NW 04-016-01 W4M	Upper Surficial	01-Sep-74	6.1	20.0	3.7	12.0	M35377.119649
Zahn, Don	SW 18-016-01 W4M	Upper Surficial	02-Mar-78	6.4	21.0	1.8	6.0	M35377.119780
Zahn, Donald	NW 04-016-01 W4M	Oldman	01-Sep-74	168.2	552.0	57.9	190.0	M35377.119605

**CYPRESS COUNTY-OPERATED WATER WELLS**

Owner	Location	Aquifer Name	Date Water Well Drilled	Completed Depth		NPWL		UID
				Metres	Feet	Metres	Feet	
M.D. of Cypress	NW 34-014-09 W4M	Lower Surficial	21-Sep-87	116.7	382.9	43.7	143.3	M35377.138114
M.D. of Cypress	06-12-016-04 W4M	Upper Surficial	Unknown	Unknown	4.8	Unknown	Unknown	Unknown
M.D. of Cypress	04-36-017-01 W4M	Upper Surficial	Unknown	36.5	54.9	Unknown	Unknown	Unknown