

Water Security Agency

Land Location:	SW-02-21-25-04W2	NTS Map:	62M/02
UTM Coordinates:	Z13 674222 E 5671350 N	RM No.:	244
Ground Elevation:		Source:	
Date Sampled:	18-Aug-74	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Yorkton 517	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	40.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	42273	Construction method:	
Analysis No.:		Formation:	Empress Group
Laboratory:		Aquifer name:	Empress, unnamed

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	152	Aluminum (Al)	
Magnesium (Mg)	123	Antimony (Sb)	
Sodium (Na)	268	As (arsenic) (µg/L)	
Potassium (K)	31	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	449	Boron (B)	
Sulphate (SO4)	1009	Cadmium (Cd)	
Chloride (Cl)	97	Chromium (Cr)	
Fluoride (F)	0.19	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	<0.4	Copper (Cu)	
Total Iron (Fe)	1.7	Lead (Pb)	
Manganese (Mn)	0.25	Molybdenum (Mo)	
pH (pH units)	7.72	Nickel (Ni)	
Conductivity (uS/cm)	2270	Selenium (Se)	
Sum of Ions	2129	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	886	Tin (Sn)	
Total Alkalinity (as CaCO3)	368	Titanium (Ti)	
		Uranium (U) (µg/L)	
Dissolved Organic Carbon (DOC)		Vanadium (V)	
Turbidity (NTU)		Zinc (Zn)	
Perchlorate			
Iodine (I)			

All values in mg/L, unless indicated otherwise

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UTM Coordinates:	Z13 674222 E 5671350 N	RM No.:	244
Ground Elevation:		Source:	
Date Sampled:	21-Jul-83	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Yorkton 517	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	40.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	42273	Construction method:	
Analysis No.:		Formation:	Empress Group
Laboratory:		Aquifer name:	Empress, unnamed

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	171	Aluminum (Al)	
Magnesium (Mg)	141	Antimony (Sb)	
Sodium (Na)	277	As (arsenic) (µg/L)	
Potassium (K)	27	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	550	Boron (B)	
Sulphate (SO4)	1040	Cadmium (Cd)	
Chloride (Cl)	108	Chromium (Cr)	
Fluoride (F)	0.19	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	0.03	Copper (Cu)	
Total Iron (Fe)	7.1	Lead (Pb)	
Manganese (Mn)	0.29	Molybdenum (Mo)	
pH (pH units)	7.48	Nickel (Ni)	
Conductivity (uS/cm)	2560	Selenium (Se)	
Sum of Ions	2314	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	996	Tin (Sn)	
Total Alkalinity (as CaCO3)	451	Titanium (Ti)	
		Uranium (U) (µg/L)	
Dissolved Organic Carbon (DOC)		Vanadium (V)	
Turbidity (NTU)		Zinc (Zn)	
Perchlorate			
Iodine (I)			

All values in mg/L, unless indicated otherwise

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Land Location:	SW-02-21-25-04W2	NTS Map:	62M/02
UTM Coordinates:	Z13 674222 E 5671350 N	RM No.:	244
Ground Elevation:		Source:	
Date Sampled:	14-May-91	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Yorkton 517	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	40.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	42273	Construction method:	
Analysis No.:		Formation:	Empress Group
Laboratory:		Aquifer name:	Empress, unnamed

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	149	Aluminum (Al)	
Magnesium (Mg)	124	Antimony (Sb)	
Sodium (Na)	200	As (arsenic) (µg/L)	
Potassium (K)	22	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	622	Boron (B)	
Sulphate (SO4)	700	Cadmium (Cd)	
Chloride (Cl)	50	Chromium (Cr)	
Fluoride (F)	0.25	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	0.04	Copper (Cu)	
Total Iron (Fe)	5	Lead (Pb)	
Manganese (Mn)	0.21	Molybdenum (Mo)	
pH (pH units)	7.7	Nickel (Ni)	
Conductivity (uS/cm)	2200	Selenium (Se)	
Sum of Ions	1867	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	881	Tin (Sn)	
Total Alkalinity (as CaCO3)	510	Titanium (Ti)	
		Uranium (U) (µg/L)	
Dissolved Organic Carbon (DOC)		Vanadium (V)	
Turbidity (NTU)		Zinc (Zn)	
Perchlorate			
Iodine (I)			

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Land Location:	SW-02-21-25-04W2	NTS Map:	62M/02
UTM Coordinates:	Z13 674222 E 5671350 N	RM No.:	244
Ground Elevation:		Source:	
Date Sampled:	25-Oct-05	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Yorkton 517	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	40.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	42273	Construction method:	
Analysis No.:		Formation:	Empress Group
Laboratory:		Aquifer name:	Empress, unnamed

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	141	Aluminum (Al)	0.0005
Magnesium (Mg)	152	Antimony (Sb)	< 0.0002
Sodium (Na)	144	As (arsenic) (µg/L)	0.027
Potassium (K)	23	Barium (Ba)	0.01
Carbonate (CO3)	<1	Beryllium (Be)	< 0.0001
Bicarbonate (HCO3)	630	Boron (B)	0.13
Sulphate (SO4)	690	Cadmium (Cd)	< 0.0005
Chloride (Cl)	42	Chromium (Cr)	< 0.005
Fluoride (F)	0.16	Cobalt (Co)	0.0005
Nitrate - Nitrate (NO3, NO2 + NO3)	<0.04	Copper (Cu)	< 0.0002
Total Iron (Fe)	7.2	Lead (Pb)	< 0.0001
Manganese (Mn)	0.2	Molybdenum (Mo)	0.011
pH (pH units)	7.81	Nickel (Ni)	0.0003
Conductivity (uS/cm)	2040	Selenium (Se)	0.0001
Sum of Ions	1822	Silver (Ag)	< 0.0001
Total Dissolved Solids (TDS)	1630	Strontium (Sr)	0.87
Error in Balance (%)		Thallium (Tl)	< 0.0002
Hardness (as CaCO3)	977	Tin (Sn)	0.0001
Total Alkalinity (as CaCO3)	516	Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	0.0014
Turbidity (NTU)	56	Vanadium (V)	0.0001
Perchlorate		Zinc (Zn)	< 0.005
Iodine (I)	0.016		

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