

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	2-Nov-68	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	114	Aluminum (Al)	
Magnesium (Mg)	35	Antimony (Sb)	
Sodium (Na)	114	As (arsenic) (µg/L)	
Potassium (K)	9	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	557	Boron (B)	
Sulphate (SO4)	202	Cadmium (Cd)	
Chloride (Cl)	20	Chromium (Cr)	
Fluoride (F)		Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)		Copper (Cu)	
Total Iron (Fe)	5.2	Lead (Pb)	
Manganese (Mn)		Molybdenum (Mo)	
pH (pH units)	7.7	Nickel (Ni)	
Conductivity (uS/cm)	1200	Selenium (Se)	
Sum of Ions	1051	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	428.5	Tin (Sn)	
Total Alkalinity (as CaCO3)		Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	
Turbidity (NTU)		Vanadium (V)	
Perchlorate		Zinc (Zn)	
Iodine (I)			

All values in mg/L, unless indicated otherwise

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	4-Nov-68	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	125	Aluminum (Al)	
Magnesium (Mg)	35	Antimony (Sb)	
Sodium (Na)	116	As (arsenic) (µg/L)	
Potassium (K)	9	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	595	Boron (B)	
Sulphate (SO4)	209	Cadmium (Cd)	
Chloride (Cl)	20	Chromium (Cr)	
Fluoride (F)		Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)		Copper (Cu)	
Total Iron (Fe)	3.2	Lead (Pb)	
Manganese (Mn)		Molybdenum (Mo)	
pH (pH units)	7.65	Nickel (Ni)	
Conductivity (uS/cm)	1270	Selenium (Se)	
Sum of Ions	1109	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	456	Tin (Sn)	
Total Alkalinity (as CaCO3)		Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	
Turbidity (NTU)		Vanadium (V)	
Perchlorate		Zinc (Zn)	
Iodine (I)			

All values in mg/L, unless indicated otherwise

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	6-Jul-72	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	123	Aluminum (Al)	
Magnesium (Mg)	36	Antimony (Sb)	
Sodium (Na)	118	As (arsenic) (µg/L)	
Potassium (K)	8	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	594	Boron (B)	
Sulphate (SO4)	198	Cadmium (Cd)	
Chloride (Cl)	25	Chromium (Cr)	
Fluoride (F)	0.2	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	2.7	Copper (Cu)	
Total Iron (Fe)	8.6	Lead (Pb)	
Manganese (Mn)		Molybdenum (Mo)	
pH (pH units)	7.35	Nickel (Ni)	
Conductivity (uS/cm)	1130	Selenium (Se)	
Sum of Ions	1105	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	455.1	Tin (Sn)	
Total Alkalinity (as CaCO3)		Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	
Turbidity (NTU)		Vanadium (V)	
Perchlorate		Zinc (Zn)	
Iodine (I)			

All values in mg/L, unless indicated otherwise

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	12-Sep-73	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	123	Aluminum (Al)	
Magnesium (Mg)	34	Antimony (Sb)	
Sodium (Na)	118	As (arsenic) (µg/L)	
Potassium (K)	8	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	600	Boron (B)	
Sulphate (SO4)	194	Cadmium (Cd)	
Chloride (Cl)	21	Chromium (Cr)	
Fluoride (F)		Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	<.01	Copper (Cu)	
Total Iron (Fe)	13.5	Lead (Pb)	
Manganese (Mn)	0.23	Molybdenum (Mo)	
pH (pH units)	7.58	Nickel (Ni)	
Conductivity (uS/cm)	1180	Selenium (Se)	
Sum of Ions	1098	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	446.9	Tin (Sn)	
Total Alkalinity (as CaCO3)		Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	
Turbidity (NTU)		Vanadium (V)	
Perchlorate		Zinc (Zn)	
Iodine (I)			

All values in mg/L, unless indicated otherwise

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	3-Jul-74	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	111	Aluminum (Al)	
Magnesium (Mg)	32	Antimony (Sb)	
Sodium (Na)	118	As (arsenic) (µg/L)	
Potassium (K)	8	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	578	Boron (B)	
Sulphate (SO4)	182	Cadmium (Cd)	
Chloride (Cl)	22	Chromium (Cr)	
Fluoride (F)	0.21	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	<0.1	Copper (Cu)	
Total Iron (Fe)	12.8	Lead (Pb)	
Manganese (Mn)	0.21	Molybdenum (Mo)	
pH (pH units)	7.36	Nickel (Ni)	
Conductivity (uS/cm)	1180	Selenium (Se)	
Sum of Ions	1051	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)		Tin (Sn)	
Total Alkalinity (as CaCO3)		Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	
Turbidity (NTU)		Vanadium (V)	
Perchlorate		Zinc (Zn)	
Iodine (I)			

All values in mg/L, unless indicated otherwise

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	15-Oct-75	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	123	Aluminum (Al)	
Magnesium (Mg)	34	Antimony (Sb)	
Sodium (Na)	115	As (arsenic) (µg/L)	
Potassium (K)	8	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	621	Boron (B)	
Sulphate (SO4)	186	Cadmium (Cd)	
Chloride (Cl)	21	Chromium (Cr)	
Fluoride (F)		Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	<0.05	Copper (Cu)	
Total Iron (Fe)	10.4	Lead (Pb)	
Manganese (Mn)	0.23	Molybdenum (Mo)	
pH (pH units)	7.4	Nickel (Ni)	
Conductivity (uS/cm)	1120	Selenium (Se)	
Sum of Ions	1108	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	446.9	Tin (Sn)	
Total Alkalinity (as CaCO3)		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

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	22-Oct-76	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	120	Aluminum (Al)	
Magnesium (Mg)	36	Antimony (Sb)	
Sodium (Na)	120	As (arsenic) (µg/L)	
Potassium (K)	8	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	601	Boron (B)	
Sulphate (SO4)	198	Cadmium (Cd)	
Chloride (Cl)	22	Chromium (Cr)	
Fluoride (F)	0.25	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	1.55	Copper (Cu)	
Total Iron (Fe)	10.6	Lead (Pb)	
Manganese (Mn)	0.26	Molybdenum (Mo)	
pH (pH units)	7.56	Nickel (Ni)	
Conductivity (uS/cm)	1208	Selenium (Se)	
Sum of Ions	1107	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	447.6	Tin (Sn)	
Total Alkalinity (as CaCO3)		Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	
Turbidity (NTU)		Vanadium (V)	
Perchlorate		Zinc (Zn)	
Iodine (I)			

All values in mg/L, unless indicated otherwise

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	9-Nov-78	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	36	Aluminum (Al)	
Magnesium (Mg)	38	Antimony (Sb)	
Sodium (Na)	119	As (arsenic) (µg/L)	
Potassium (K)	7.5	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	338	Boron (B)	
Sulphate (SO4)	169	Cadmium (Cd)	
Chloride (Cl)	31	Chromium (Cr)	
Fluoride (F)	0.17	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	0.03	Copper (Cu)	
Total Iron (Fe)	8.5	Lead (Pb)	
Manganese (Mn)	0.25	Molybdenum (Mo)	
pH (pH units)	8.2	Nickel (Ni)	
Conductivity (uS/cm)	905	Selenium (Se)	
Sum of Ions	739	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	245.8	Tin (Sn)	
Total Alkalinity (as CaCO3)		Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	
Turbidity (NTU)		Vanadium (V)	
Perchlorate		Zinc (Zn)	
Iodine (I)			

All values in mg/L, unless indicated otherwise

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	19-Aug-79	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	74	Aluminum (Al)	
Magnesium (Mg)	37	Antimony (Sb)	
Sodium (Na)	116	As (arsenic) (µg/L)	
Potassium (K)	8	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	448	Boron (B)	
Sulphate (SO4)	184	Cadmium (Cd)	
Chloride (Cl)	30	Chromium (Cr)	
Fluoride (F)	0.19	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	1.03	Copper (Cu)	
Total Iron (Fe)	14.2	Lead (Pb)	
Manganese (Mn)	0.31	Molybdenum (Mo)	
pH (pH units)	7.7	Nickel (Ni)	
Conductivity (uS/cm)	1148	Selenium (Se)	
Sum of Ions	898	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	336.7	Tin (Sn)	
Total Alkalinity (as CaCO3)		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

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	23-Oct-80	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	104	Aluminum (Al)	
Magnesium (Mg)	39	Antimony (Sb)	
Sodium (Na)	119	As (arsenic) (µg/L)	
Potassium (K)	7.6	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	535	Boron (B)	
Sulphate (SO4)	183	Cadmium (Cd)	
Chloride (Cl)	21	Chromium (Cr)	
Fluoride (F)	0.23	Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	9.9	Copper (Cu)	
Total Iron (Fe)	0.52	Lead (Pb)	
Manganese (Mn)	0.3	Molybdenum (Mo)	
pH (pH units)	7.76	Nickel (Ni)	
Conductivity (uS/cm)	1400	Selenium (Se)	
Sum of Ions	1019	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	419.9	Tin (Sn)	
Total Alkalinity (as CaCO3)		Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	
Turbidity (NTU)		Vanadium (V)	
Perchlorate		Zinc (Zn)	
Iodine (I)			

All values in mg/L, unless indicated otherwise

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	21-Oct-81	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	91	Aluminum (Al)	
Magnesium (Mg)	36	Antimony (Sb)	
Sodium (Na)	118	As (arsenic) (µg/L)	
Potassium (K)	7.2	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	464	Boron (B)	
Sulphate (SO4)	200	Cadmium (Cd)	
Chloride (Cl)	26	Chromium (Cr)	
Fluoride (F)		Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)		Copper (Cu)	
Total Iron (Fe)	0.31	Lead (Pb)	
Manganese (Mn)	0.28	Molybdenum (Mo)	
pH (pH units)	7.95	Nickel (Ni)	
Conductivity (uS/cm)	878	Selenium (Se)	
Sum of Ions	942	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	375.1	Tin (Sn)	
Total Alkalinity (as CaCO3)		Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	
Turbidity (NTU)		Vanadium (V)	
Perchlorate		Zinc (Zn)	
Iodine (I)			

All values in mg/L, unless indicated otherwise

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	12-Oct-82	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	123	Aluminum (Al)	
Magnesium (Mg)	40	Antimony (Sb)	
Sodium (Na)	119	As (arsenic) (µg/L)	
Potassium (K)	7.4	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	593	Boron (B)	
Sulphate (SO4)	206	Cadmium (Cd)	
Chloride (Cl)	26	Chromium (Cr)	
Fluoride (F)		Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	<0.02	Copper (Cu)	
Total Iron (Fe)	8.7	Lead (Pb)	
Manganese (Mn)	0.28	Molybdenum (Mo)	
pH (pH units)	7.81	Nickel (Ni)	
Conductivity (uS/cm)	1240	Selenium (Se)	
Sum of Ions	1114	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	471.5	Tin (Sn)	
Total Alkalinity (as CaCO3)		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

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	2-Oct-87	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	120	Aluminum (Al)	
Magnesium (Mg)	37	Antimony (Sb)	
Sodium (Na)	114	As (arsenic) (µg/L)	
Potassium (K)	7.1	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	546	Boron (B)	
Sulphate (SO4)	199	Cadmium (Cd)	
Chloride (Cl)	23	Chromium (Cr)	
Fluoride (F)		Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	0.02	Copper (Cu)	
Total Iron (Fe)	3	Lead (Pb)	
Manganese (Mn)	0.17	Molybdenum (Mo)	
pH (pH units)	7.47	Nickel (Ni)	
Conductivity (uS/cm)	1176	Selenium (Se)	
Sum of Ions	1046	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	451.7	Tin (Sn)	
Total Alkalinity (as CaCO3)		Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	
Turbidity (NTU)		Vanadium (V)	
Perchlorate		Zinc (Zn)	
Iodine (I)			

All values in mg/L, unless indicated otherwise

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	23-Sep-92	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	126	Aluminum (Al)	
Magnesium (Mg)	36	Antimony (Sb)	
Sodium (Na)	116	As (arsenic) (µg/L)	
Potassium (K)	7.7	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	570	Boron (B)	
Sulphate (SO4)	198	Cadmium (Cd)	
Chloride (Cl)	22	Chromium (Cr)	
Fluoride (F)		Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	0.18	Copper (Cu)	
Total Iron (Fe)		Lead (Pb)	
Manganese (Mn)		Molybdenum (Mo)	
pH (pH units)	7.8	Nickel (Ni)	
Conductivity (uS/cm)	1210	Selenium (Se)	
Sum of Ions	1076	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	462.6	Tin (Sn)	
Total Alkalinity (as CaCO3)		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

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	11-Sep-95	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	118	Aluminum (Al)	
Magnesium (Mg)	38	Antimony (Sb)	
Sodium (Na)	116	As (arsenic) (µg/L)	
Potassium (K)	7.2	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	582	Boron (B)	
Sulphate (SO4)	195	Cadmium (Cd)	
Chloride (Cl)	22	Chromium (Cr)	
Fluoride (F)		Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)		Copper (Cu)	
Total Iron (Fe)		Lead (Pb)	
Manganese (Mn)		Molybdenum (Mo)	
pH (pH units)	7.67	Nickel (Ni)	
Conductivity (uS/cm)	1240	Selenium (Se)	
Sum of Ions	1078	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	450.8	Tin (Sn)	
Total Alkalinity (as CaCO3)		Titanium (Ti)	
Dissolved Organic Carbon (DOC)		Uranium (U) (µg/L)	
Turbidity (NTU)		Vanadium (V)	
Perchlorate		Zinc (Zn)	
Iodine (I)			

All values in mg/L, unless indicated otherwise

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	3-Dec-04	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	115	Aluminum (Al)	
Magnesium (Mg)	37	Antimony (Sb)	
Sodium (Na)	118	As (arsenic) (µg/L)	
Potassium (K)	7.5	Barium (Ba)	
Carbonate (CO3)		Beryllium (Be)	
Bicarbonate (HCO3)	583	Boron (B)	
Sulphate (SO4)	190	Cadmium (Cd)	
Chloride (Cl)	21	Chromium (Cr)	
Fluoride (F)		Cobalt (Co)	
Nitrate - Nitrate (NO3, NO2 + NO3)	<0.04	Copper (Cu)	
Total Iron (Fe)	2.78	Lead (Pb)	
Manganese (Mn)	0.19	Molybdenum (Mo)	
pH (pH units)	7.5	Nickel (Ni)	
Conductivity (uS/cm)	1200	Selenium (Se)	
Sum of Ions	1072	Silver (Ag)	
Total Dissolved Solids (TDS)		Strontium (Sr)	
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	439	Tin (Sn)	
Total Alkalinity (as CaCO3)	478	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

Water Security Agency

Land Location:	NE-16-20-35-08W3	NTS Map:	73B/03
UTM Coordinates:	Z13 355908 E 5766056 N	RM No.:	345
Ground Elevation:		Source:	
Date Sampled:	5-Sep-05	Time Sampled:	
Sample Location:		Sampled by:	
Well name:	SWA Agrium 43	Contractor:	
Well owner:	Water Security Agency		
Address:	111 Fairford Street East Moose Jaw, SK S6H 7X9	Tel:	
Sample Depth:	17.5	Date Drilled:	
Depth to Water:		Pump Setting:	
Well Diameter:		Pumping Rate:	
WWRD #	NA	Construction method:	
Analysis No.:		Formation:	Quaternary, undiff
Laboratory:		Aquifer name:	Tessier aquifer

Constituent	Concentration	Constituent	Concentration
Major Ions		Metals	
Calcium (Ca)	119	Aluminum (Al)	< 0.005
Magnesium (Mg)	36	Antimony (Sb)	
Sodium (Na)	118	As (arsenic) (µg/L)	0.028
Potassium (K)	7.9	Barium (Ba)	0.02
Carbonate (CO3)	< 1	Beryllium (Be)	< 0.001
Bicarbonate (HCO3)	603	Boron (B)	0.53
Sulphate (SO4)	190	Cadmium (Cd)	< 0.001
Chloride (Cl)	21	Chromium (Cr)	< 0.001
Fluoride (F)		Cobalt (Co)	< 0.001
Nitrate - Nitrate (NO3, NO2 + NO3)	<0.04	Copper (Cu)	< 0.001
Total Iron (Fe)	2.8	Lead (Pb)	< 0.002
Manganese (Mn)	0.2	Molybdenum (Mo)	0.008
pH (pH units)	8.15	Nickel (Ni)	< 0.001
Conductivity (uS/cm)	1260	Selenium (Se)	0.0001
Sum of Ions	1095	Silver (Ag)	< 0.001
Total Dissolved Solids (TDS)		Strontium (Sr)	0.72
Error in Balance (%)		Thallium (Tl)	
Hardness (as CaCO3)	445	Tin (Sn)	
Total Alkalinity (as CaCO3)	494	Titanium (Ti)	
		Uranium (U) (µg/L)	
Dissolved Organic Carbon (DOC)		Vanadium (V)	< 0.001
Turbidity (NTU)		Zinc (Zn)	< 0.005
Perchlorate			
Iodine (I)	0.0543		

All values in mg/L, unless indicated otherwise

**Saskatchewan Research Council
15 Innovation Blvd., Saskatoon S7N 2X8**

Land Location:	NTS Map:
UTM Coordinates:	RM No.:
Ground Elevation:	Source:
Date Sampled: 16-Nov-11	Time Sampled:
Sample Location: Observation Well	Sampled by:
Remark Sample Location:	
Well name: Agrium43	
Well owner: Water Security Agency	
Address: 111 Fairford Street East	Tel:
Moose Jaw, SK S6H 7X9	
Contractor:	Date Drilled: 1968
Well Depth:	Pump Setting:
Depth to Water:	Pumping Rate:
Well Diameter:	Construction method:
SRC acquisition #:	Formation:
WWRD # 219583	Aquifer name:
Laboratory: SRC Analytical	SRC Group: 2011-1165
	Analysis No.: 42445
Constituent	Concentration

Major Ions	Metals
Calcium (Ca) 114	Aluminum (Al)
Magnesium (Mg) 36	Antimony (Sb)
Sodium (Na) 116	As (arsenic) (µg/L)
Potassium (K) 8.1	Barium (Ba)
Carbonate (CO3) <1	Beryllium (Be)
Bicarbonate (HCO3) 590	Boron (B)
Sulphate (SO4) 180	Cadmium (Cd)
Chloride (Cl) 22	Chromium (Cr)
Fluoride (F)	Cobalt (Co)
Nitrate - Nitrate (NO3, NO2 + NO3) <4	Copper (Cu)
Total Iron (Fe)	Lead (Pb)
Manganese (Mn)	Molybdenum (Mo)
pH (pH units) 8.02	Nickel (Ni)
Conductivity (uS/cm) 1240	Selenium (Se)
Sum of Ions 1070	Silver (Ag)
Total Dissolved Solids (TDS)	Strontium (Sr)
Error in Balance (%)	Thallium (Tl)
Hardness (as CaCO3) 432	Tin (Sn)
Total Alkalinity (as CaCO3) 484	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 NIL means not detectable ND means not determined