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WATER AND WASTEWATER TREATMENT WORKS IN ONTARIO



Dec. 31, 1979

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Ontario
Ministry of the Environment

Hon. Harry C. Parrott, D.D.S., Minister

Graham W. S. Scott, Q.C. Deputy Minister

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Water and Wastewater Treatment Works in Ontario Dec. 31, 1979.

prepared by: Management Information Group
Municipal and Private Section
Pollution Control Branch

416/965-1655

FOREWORD

At the end of 1979 the design capacity of the major wastewater treatment plants in Ontario was 1,143.069 million imperial gallons per day (MIGD) or 5,196.392 thousands of cubic meters ($1000M^3$). This represents a net increase of 47.327 (MIGD) or 215.149 ($1000M^3$) from 1978. This increase takes into consideration the re-rating of capacities, the additional capacity from new and expanded plants.

The corresponding number of wastewater treatment works in 1979 was 359 which amounts to a net increase of 8 plants from 1978. This increase is attributable to 8 new plants being brought into operation and none being phased out.

The design capacity of the major water supply facilities in Ontario in 1979 was 1,972.514 (MIGD) or 8,967.049 ($1000M^3$) which represents a net increase of 18.634 (MIGD) or 84.711 ($1000M^3$) from 1978. This increase takes into consideration the re-rating of capacities, the additional capacity from new and expanded plants and the loss of capacity from the phasing out of certain works. The corresponding number of water works in 1979 was 426 which amounts to a net decrease of 1 plant from 1978. This decrease is the result of 7 new water supplies being brought into operation and 8 being phased out.

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Mr. D. Brian Hogarth,
Municipal Sewage Unit,
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INTRODUCTION

The Ministry of the Environment is concerned with the protection and enhancement of the natural environment. For example, the release of untreated sanitary wastes to a watercourse, particularly in the immediate discharge area, renders the watercourse unusable for practically all purposes. This condition creates a threat to public health and is disruptive to plant and animal life cycles; therefore, the adequate treatment of wastes to produce a satisfactory effluent for discharge to a watercourse is a major concern of this Ministry.

When a body of water is needed for the assimilation and dilution of treated wastes then consideration must be given to all of the other uses of water, such as public, agricultural and industrial water supply, recreation, aesthetic enjoyment and the propagation of fish and wildlife. It is evident that Ontario's water resources must meet many needs and in order to assist with the administration of these needs, the Ministry of the Environment has produced a publication entitled "Water Management" which outlines 'goals, policies, objectives and implementation procedures of the Ministry of the Environment', necessary to ensure the sound management of wastes and water across the province. Copies may be obtained from the Water Resources Branch, 1 St. Clair Ave. West (Telephone: 965-6954). In addition, criteria for drinking water is outlined in a booklet entitled, "Drinking Water Objectives", which is available from this Ministry's Information Services Branch at 135 St. Clair Ave. West (Telephone: 965-7117). Both of the above mentioned publications may be obtained from the Publications Centre, Ministry of Government Services, 880 Bay Street, 5th Floor, Toronto.

With regard to the meeting of these goals and objectives, the Ministry inspects and regulates all communal water and wastewater facilities, and monitors the performance of the treatment plants and their effluent qualities with routine and special sampling programs. The administration of these services and programs is carried out on a regional basis. To complement the sampling programs and the various water quality management programs, the Municipal and Private Section of the Pollution Control Branch, in co-operation with our Regional offices, has produced this publication from its EDP system to provide a comprehensive listing of all major Municipal wastewater and water treatment facilities operating in Ontario.

This publication has two major parts. PART I lists the wastewater treatment works and PART II lists the water works facilities. Each part begins with a brief description of the various treatment methods which is followed by a summary of the existing treatment types and their hydraulic capacities for the entire province. This is followed by a complete listing of the works.

Since the delivery of programs and services by this Ministry is carried out on a regional basis, it is therefore, logical to group these treatment works under the Ministry's six regions. Accordingly, each one of our regions is first defined by means of a map page and then all treatment works for that particular region are listed alphabetically by municipality. An additional list of the plants which are located in each of the larger or regional municipalities has been prepared on green paper.

Very large systems, which serve more than one municipality, are shown at the end of each region's data on pink paper and the definition of these, 'area systems' is described below.

Area-Systems - "Area Wastewater Treatment Systems" And "Area Water Supply Systems"

When a municipality experiences sustained growth, eventually the serviced area of its treatment facility extends beyond its municipal boundaries. Once this condition occurs to the point where it becomes necessary to size the treatment works and major service mains to accomodate a much larger area, the system is, for the purposes of this publication, defined as an "Area Wastewater Treatment System", or an "Area Water Supply System".

WASTEWATER

PART -- I

1979

PART 1 - WASTEWATER TREATMENT

There are many types of wastewater treatment processes for sanitary wastes but the major treatment methods are variations of the principles which nature uses to purify a river or other body of water. Basically, the more essential factors such as sedimentation and the biological breakdown of wastes are speeded up in the treatment plant, with the end result being a quality product which places a minimum amount of strain on the environment. Recently, a chemical method of treatment to reduce the phosphorus content of the effluent has been adapted to the various treatment types and this is seen to be a key factor in controlling nuisance algae in a watercourse.

At present, three basic stages or major treatment methods, are employed in Ontario and these may be categorized as "primary", "secondary" and "tertiary" treatment. In the primary stage, solids are allowed to settle and are removed as sludge from the water. The secondary stage uses biological processes to purify the wastewater even further. Tertiary processes are now being installed at specified locations to meet more stringent receiving water quality requirements.

It is important to note that over 78%, of Ontario's sewered wastewaters now receive secondary treatment or better.

The efficiency of all treatment whether primary, secondary or tertiary are generally rated in terms of the percentage removal of Biochemical Oxygen Demand (BOD) and the percentage removal of Suspended Solids (SS). BOD is simply the amount of oxygen uptake by bacteria to decompose the wastes and 'SS' are the organic and inorganic substances suspended in the wastewater.

1. PRIMARY TREATMENT

Wastes entering a plant for treatment, normally pass through a screen to remove certain items such as rags or sticks etc. which may clog pumps or pipes. After screening, the wastes are directed into a grit chamber where sand and small stones etc., are allowed to settle. With the grit removed, the mechanics of settling are further employed to remove the inorganic matter and suspended solids in a primary sedimentation tank or clarifier. The material (sludge) which has finally settled is removed to a digester or other treatment facility where it is suitably stabilized prior to final disposal. Primary treatment generally removes 40 to 60 percent of the suspended solids and in so doing it achieves 30 to 50 percent reduction of BOD. To complete primary treatment, the effluent from the clarifier is usually chlorinated before being discharged to a receiving stream, river or lake. Chlorination reduces the number of disease causing bacteria. The effluent produced from primary treatment is of a lower standard of quality than is achieved in secondary treatment; consequently, this form of treatment is used only when it will meet the water quality requirements of the receiving body of water.

2. SECONDARY TREATMENT

The secondary stage of treatment removes up to 90% of the BOD through the action of bacteria and is commonly referred to as biological treatment. The term biological refers to the micro-organisms present in the wastewater and these are utilized to break down the organic matter with the end result being a settleable material (sludge), which may be removed, and a clear liquid effluent.

There are various forms of secondary treatment but the 'activated sludge process' is by far the most popular method used today. Other forms of secondary treatment such as lagoons and trickling filters are also being used in Ontario but to a lesser extent.

2.1 ACTIVATED SLUDGE PROCESS

The activated sludge process reduces the organic content of the wastes in as short a time as possible by efficiently maintaining the biological activity on the incoming wastes. This is done by introducing a highly developed bacterial community, 'activated sludge', to the new wastes as soon as possible, usually at the agitation and aeration sections. The efficiency of this process is ensured by providing a suitable environment for the micro-organisms, which means, supplying optimum amounts of food in the form of wastes, oxygen through aeration and a temperature high enough to maintain the desired growth of the microbes.

The following treatment types, are modifications of the activated sludge process.

a) Conventional Secondary (Conventional Activated Sludge Process)

In this process, the effluent from the primary treatment stage is conveyed to an aeration section where it is thoroughly mixed by the introduction of air for approximately 6 to 8 hours. The air provides sufficient oxygen and contact through agitation with the new wastes to ensure that an efficient decomposition of the wastes occurs. An optimum balance between the incoming food, (primary effluent) and the population of the mixed biological community is maintained by adding a portion of the activated sludge to the beginning of the aeration section. Excess activated sludge together with some liquids are directed to the digesters where they receive further treatment. A clear high quality effluent is produced and the removal of BOD and suspended solids ranges from 90 to 95 percent.

b) High Rate

The high rate modification was developed by overloading the conventionally designed activated sludge plants. The organic load in the aeration sections is the highest of any of the other variations of the activated sludge process and the aeration time is proportionately shorter (1 to 3 hours). Excess activated sludge and some liquids are placed in a digester where they are stabilized before final disposal. A higher volume of wastes may be handled in a shorter period of time, which makes for a more economical operation. A primary treatment section may or may not be present, and this method is generally used where industrial wastes are encountered.

The high rate type of treatment is reported to have a removal rate for BOD and suspended solids in the 80 to 85 percent range.

c) Extended Aeration

The incoming wastes are immediately placed in an aeration section without primary settling and a longer aeration time is employed usually 18 to 24 hours. Due to the long aeration period a more complete decomposition or oxidation of the wastes occurs.

As with the conventional secondary, a high level of biological activity is maintained throughout the aeration tank by returning some of the activated sludge to the raw sewage influent. Excess activated sludge together with some liquids are placed in a holding tank or sometimes a digester prior to final disposal. The reduction in BOD is usually in excess of 90%.

d) Contact Stabilization

This modification provides a means of varying the contact time between the incoming wastes and the activated sludge. The initial operation is done in a small chamber called a contact aeration tank and usually lasts for 1 or 2 hours. After this short aeration period the wastes undergo settling and the resulting sludge is re-aerated for a further 2 to 6 hours. The total aeration time of the sludge ranges from 3 to 8 hours which allows for the production of the activated sludge required in the contact aeration tank. Excess activated sludge together with some liquids are placed in a holding tank or sometimes a digester prior to final disposal.

The removal of suspended solids and BOD is similar to the conventional secondary method.

e) Oxidation Ditch

An oxidation ditch is a retention channel constructed in the shape of a race track which is equipped with a rotary aerating device, which circulates the wastewater around the channel where the activated sludge process is employed. After the required retention time the treated wastewater is drawn off as new wastes are added, and placed in a settling tank where the sludge is collected and then either returned to the ditch or removed for final disposal. The effluent from the settling tank is clear and of good quality. The removal of BOD and suspended solids ranges from 85 to 90 percent. This process is similar to extended aeration and is usually used in smaller communities.

2.2 LAGOONS, AERATED CELL OR AERATED LAGOON

A lagoon is a flat bottomed structure composed of earth dikes and sized to retain the wastewater for a designated period of time. The lagoon employs many complex systems working together in a cyclical manner. For example, the bacteria converts the organic matter into available plant food and promotes the growth of algae, which is one of the simplest forms of plant life. The algae, with the aid of sunlight, produces oxygen which is required to maintain good bacterial activity on the incoming wastes. Also, the bacteria, with sufficient food (wastes), grow and give off carbon dioxide, which is needed to sustain the algae's life cycle. During the retention period these natural processes work together to decompose and effectively stabilize the wastes. The efficiency of these processes are dependant on several factors such as liquid depth, temperature, algae growth, waste characteristics, etc. When conditions are at an optimum, then a good quality effluent may be expected.

Some lagoons, or waste stabilization ponds may be aerated, by either mechanical stirring or the bubbling of air into one small cell (aerated cell) or throughout the entire lagoon (aerated lagoon). Aeration reduces the retention period, increases the capacity of the existing lagoon and is useful in treating some industrial wastes. 80 to 85 percent removal of BOD and suspended solids may be expected.

2.3 Trickling Filter

The trickling filter is simply a bed of stones from 3 to 6 feet deep to which primary treated sewage is equally distributed. Bacteria adhere to and multiply on the surfaces of these stones until they can consume most of the organic matter. Treated water trickles out through a network of pipes in the bottom of the filter where it is collected and directed to a final clarifier befor final disposal. BOD and suspended solids removal by this process has been reported from 75 to 90 percent. Trickling filters have generally been employed in the more temperate climates.

3. TERTIARY TREATMENT

Tertiary treatment processes are applied to secondary effluent to further upgrade the effluent quality for specific receiving water needs.

In Ontario, the only tertiary processes being used on a municipal scale are polishing lagoons and tertiary effluent filtration. These are designated as "effluent polishing" in this publication.

a) Polishing Lagoons

Polishing lagoons offer an opportunity for increased BOD and suspended solids removal at a minimum of cost but require a relatively large land area. Secondary effluent is passed into lagoon where it is retained for several days while the algae-bacterial symbiotic relationship is encouraged to optimize oxidation of the organic waste. A fairly consistent removal of BOD is maintained throughout the year. There is a marked increase in effluent SS during the summer months when algal activity is at its peak and this constitutes a major disadvantage of the polishing lagoon. BOD removals in the order of 40 to 60% from a secondary effluent may be achieved.

b) Effluent Filtration

Filtration of secondary effluent is the most widely applied tertiary process in Ontario. A well designed and operated tertiary filter should achieve a good lowering of suspended solids and is effective in reducing BOD and total phosphorus.

4. PHOSPHORUS REMOVAL

Treatment for phosphorus basically consists of the addition of a chemical which through precipitation lowers the phosphorus in the effluent to a specified amount. Phosphorus must be reduced to one part per million (1 ppm) or milligrams per litre (mg/l) in all designated plants in the Lower Great Lakes drainage basin. Designated plants in the Upper Great Lakes and Ottawa River drainage basins must reduce influent phosphorus by 80 percent or to 1 ppm. Phosphorus removal facilities can be incorporated into any existing treatment works and the chemicals generally used are lime, aluminum salts or iron salts. New chemicals to be used in any plant must first undergo treatability studies to determine if the desired reduction of phosphorus is achieved with no upset in plant operation and to ensure that the quality of effluent has not suffered any deterioration.

Important side benefits of increased removal of organic material and suspended solids occur when phosphorus treatment is employed in primary plants and lagoons with seasonal discharge. Secondary plants and continuous discharge lagoons do not enjoy these benefits; however, secondary plants report better settling in the final stages.

PROVINCIAL SUMMARY

TREATMENT TYPE	NUMBER			** CAPACITY MIGD ($1000M^3$)		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	11	27	38	34.460	203.840	238.300 (1,083.312)
CONVENTIONAL SECONDARY	31	61	92	160.915	598.416	759.331 (3,451.919)
MODIFIED SECONDARY	1	0	1	1.700		1.700 (7.728)
CONTACT STABILIZATION	8	6	14	5.682	9.960	15.642 (71.109)
EXTENDED AERATION	43	16	59	27.899	32.539	60.438 274.751)
TRICKLING FILTER	0	3	3		8.100	8.100 (36.823)
HIGH RATE	5	1	6	16.160	2.000	18.160 (82.555)
AERATED LAGOON	0	1	1		.608	.608 (2.764)
CONVENTIONAL LAGOON CONTINUOUS	15	10	25	2.165	5.749	7.914 (35.977)
CONVENTIONAL LAGOON SEASONAL	80	15	95	17.537	4.737	22.274 (101.258)
LAGOON WITH SPRAY	2	0	2	.245		.245 (1.114)
AERATED CELL PLUS LAGOON	5	7	12	4.172	2.145	6.317 (28.717)
OXIDATION DITCH	9	1	10	2.330	1.420	3.750 (17.048)
AERATED CELL	1	0	1	.290		.290 (1.318)
TOTALS	211	148	359	273.555 (1,243.581)	869.514 (3,952.811)	1,143.069 (5,196.392)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY
($1000M^3$) = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MGD = 4.546 $1000M^3$

Southwestern Region

1

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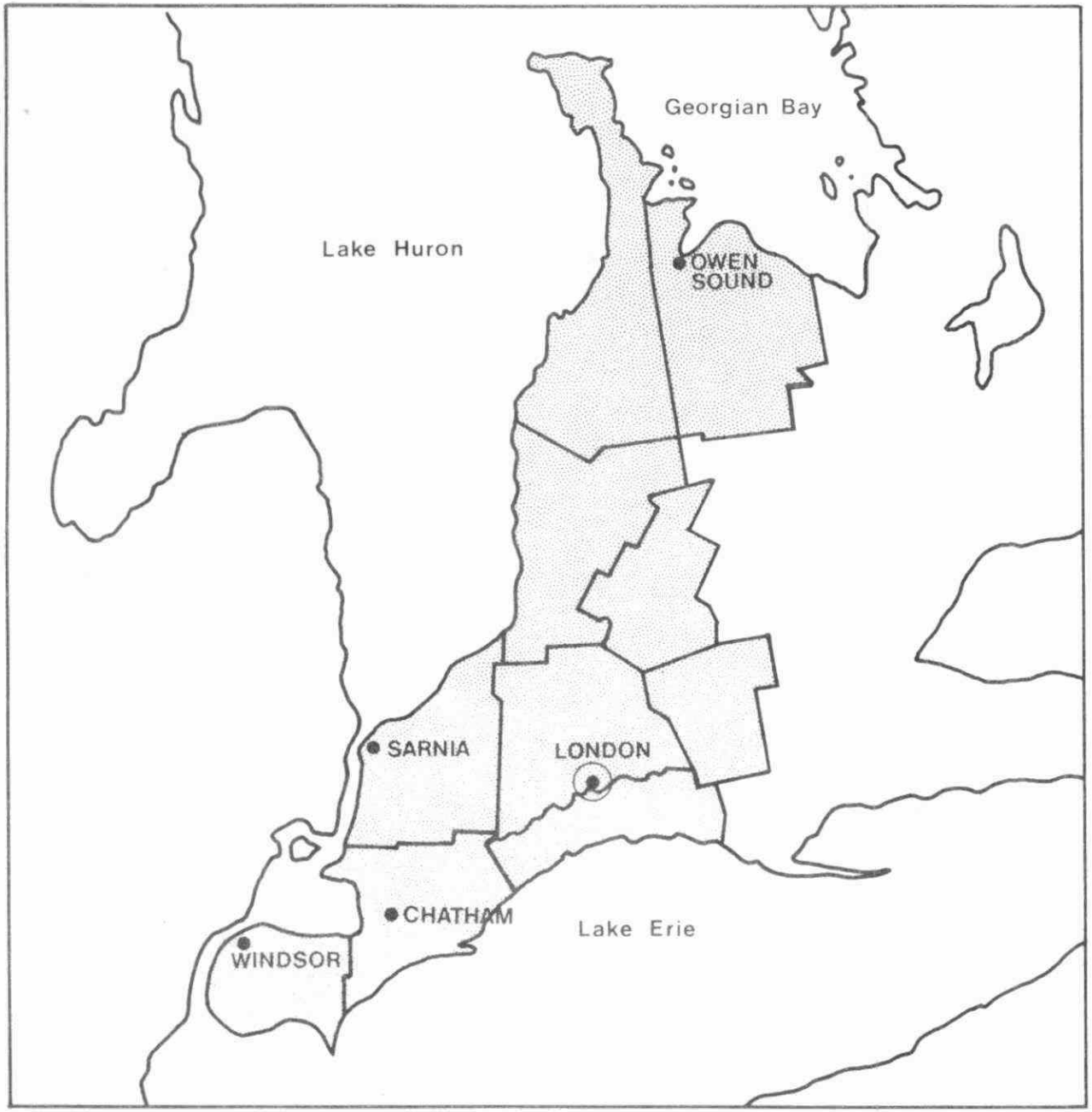
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Southwestern Region

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SOUTHWESTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<----------** CAPACITY MIGD ($1000M^3$)---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	2	3	5	5.970	39.500	45.470 (206.707)
CONVENTIONAL SECONDARY	9	12	21	14.400	69.300	83.700 (380.500)
CONTACT STABILIZATION	0	1	1		.400	.400 (1.818)
EXTENDED AERATION	6	2	8	4.043	4.258	8.301 (37.736)
HIGH RATE	1	0	1	.860		.860 (3.910)
CONVENTIONAL LAGOON CONTINUOUS	4	1	5	.755	.600	1.355 (6.160)
CONVENTIONAL LAGOON SEASONAL	37	3	40	7.732	.972	8.704 (39.568)
AERATED CELL PLUS LAGOON	3	1	4	2.502	.084	2.586 (11.756)
OXIDATION DITCH	2	1	3	.825	1.420	2.245 (10.206)
AERATED CELL	1	0	1	.290		.290 (1.318)
**** TOTALS ****	65	24	89	37.377 (169.916)	116.534 (529.764)	153.911 (699.679)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY
($1000M^3$) = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MGD = 4.546 $1000M^3$

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
AMHERSTBURG TOWN MUNICIPAL PLANT	PRIMARY PHOSPHORUS REMOVAL	1.000 (4.546)	DETROIT RIVER	MUNICIPALITY
AYLMER TOWN AYLMER LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.540 (2.455)	CATFISH CREEK	MINISTRY
BELMONT VILLAGE BELMONT LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.124 (.564)	KETTLE CREEK	MINISTRY
BLENHEIM TOWN BLENHEIM LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.302 (1.373)	CAMERON DR. - MCGREGOR CK	MUNICIPALITY
CHATHAM CITY CHATHAM W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.500 (20.457)	THAMES RIVER	MUNICIPALITY
CHESLEY TOWN CHESLEY LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.200 (.909)	NORTH SAUGEEN RIVER	MINISTRY
CLINTON TOWN MUNICIPAL PLANT	CONTACT STABILIZATION	.400 (1.818)	BAYFIELD RIVER	MUNICIPALITY
DOVER TOWNSHIP MITCHELL'S BAY LAGOON (NO DISCHARGE)	CONVENTIONAL LAGOON (TOTAL RETENTION)	.023 (.105)	(LAKE ST. CLAIR)	MINISTRY
DRESDEN TOWN DRESDEN WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	1.000 (4.546)	SYDENHAM RIVER	MINISTRY
DUNDALK VILLAGE DUNDALK LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.143 (.650)	FOLEY DRAIN TO GRAND R.	MINISTRY
DURHAM TOWN DURHAM LAGOON	AERATED CELL (CONTINUOUS DISCHARGE)	.290 (1.318)	SAUGEEN RIVER	MINISTRY
DUTTON VILLAGE DUTTON LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.070 (.318)	BENNETT CK. TO L. ERIE	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
EAST ZORRA-TAVISTOCK TOWNSHIP TAVISTOCK LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.170 (.773)	TRIBUTARY TO THAMES R.	MINISTRY
ENNISKILLEN TOWNSHIP OIL CITY LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.037 (.168)	BLACK CREEK	MINISTRY
ESSEX (N.E.) TOWN ESSEX LAGOON N.E. (CONTINUOUS DISCHARGE FOR 6 MONTHS)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.181 (.823)	PUCE RIVER DRAIN	MINISTRY
ESSEX (S.W.) TOWN ESSEX LAGOON S.W. (CONTINUOUS DISCHARGE FOR 6 MONTHS)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.272 (1.237)	CANARD RIVER	MINISTRY
EXETER TOWN EXETER LAGOON	CONVENTIONAL LAGOON SEASONAL	.597 (2.714)	AUSABLE RIVER	MINISTRY
FOREST TOWN FOREST LAGOON	CONVENTIONAL LAGOON SEASONAL	.300 (1.364)	HICKORY CREEK	MINISTRY
GLENCOE VILLAGE GLENCOE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.200 (.909)	NEWBIGGEN CREEK	MINISTRY
GODERICH TOWN MUNICIPAL PLANT	CONVENTIONAL SECONDARY	1.000 (4.546)	LAKE HURON	MUNICIPALITY
GOSFIELD N. TOWNSHIP COTTAM LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.120 (.546)	MADDOX DRAIN TO BELLE R.	MINISTRY
HANOVER TOWN HANOVER W P C P	CONVENTIONAL SECONDARY	.700 (3.182)	SAUGEEN RIVER	MUNICIPALITY
HARROW TOWN HARROW LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.345 (1.568)	CEDAR CREEK	MINISTRY
HENSALL VILLAGE HENSALL LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.125 (.568)	BLACK CK. TO AUSABLE R.	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
INGERSOLL TOWN INGERSOLL WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	2.250 (10.229)	THAMES RIVER	MINISTRY
KINCARDINE TOWN KINCARDINE LAGOON	AERATED CELL PLUS LAGOON	1.300 (5.910)	LAKE HURON	MINISTRY
KINGSVILLE TOWN KINGSVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.430 (1.955)	WIGLE CREEK	MUNICIPALITY
LEAMINGTON TOWN LEAMINGTON WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	4.200 (19.093)	LAKE ERIE	MUNICIPALITY
LISTOWEL TOWN LISTOWELL LAGOON SEASONAL DISCHARGE (CONTINUOUS)	AERATED CELL PLUS LAGOON PHOSPHORUS REMOVAL LAGOON WITH SPRAY	.802 (3.646)	CHAPMAN DRAIN	MINISTRY
LONDON CITY POTTERSBURG PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	5.200 (23.639)	THAMES RIVER	MUNICIPALITY
LONDON CITY VAUXHALL PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.600 (20.912)	THAMES RIVER	MUNICIPALITY
LONDON CITY OXFORD PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.200 (5.455)	THAMES RIVER	MUNICIPALITY
LONDON CITY GREENWAY PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	27.350 (124.333)	THAMES RIVER	MUNICIPALITY
LONDON CITY ADELAIDE PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	THAMES RIVER	MUNICIPALITY
LUCAN VILLAGE LUCAN LAGOON	CONVENTIONAL LAGOON SEASONAL	.083 (.377)	LITTLE AUSABLE RIVER	MINISTRY
MAIDSTONE TOWNSHIP BELLE RIVER - MAIDSTONE W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	1.500 (6.819)	LAKE ST.CLAIR	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
MARKDALE VILLAGE MARKDALE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.140 (.636)	ROCKY SAUGEEN RIVER	MINISTRY
MEAFORD TOWN MEAFORD WPCP	HIGH RATE	.860 (3.910)	GEORGIAN BAY	MINISTRY
MILDMAY VILLAGE MILDMAY WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.213 (.968)	OTTER CREEK	MINISTRY
MILVERTON VILLAGE (CONTINUOUS) MILVERTON LAGOON (SPRAY IN SUMMER)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL LAGOON WITH SPRAY	.170 (.773)	BOYLE DRAIN	MINISTRY
MITCHELL TOWN (CONTINUOUS) MITCHELL LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.620 (2.819)	THAMES RIVER	MINISTRY
MOORE (BRIGDEN) TOWNSHIP BRIGDEN POLICE VILLAGE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.075 (.341)	BEAR CREEK	MINISTRY
MOORE (CORUNNA) TOWNSHIP CORUNNA P.V. PLANT(EXP TO .960 MG 78)	EXTENDED AERATION PHOSPHORUS REMOVAL	.960 (4.364)	ST. CLAIR RIVER	MINISTRY
MOORE (COURTRIGHT) TOWNSHIP COURTRIGHT W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	.120 (.546)	ST. CLAIR RIVER	MINISTRY
NORMANBY TOWNSHIP NEUSTADT LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.120 (.546)	SOUTH SAUGEEN RIVER	MINISTRY
NORWICH TOWNSHIP NORWICH LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.300 (1.364)	BIG OTTER CREEK	MINISTRY
OIL SPRINGS VILLAGE OIL SPRINGS LAGOON (POSSIBLE 150 DAY SPRAY)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.100 (.455)	BLACK CREEK	MINISTRY
OWEN SOUND CITY OWEN SOUND W P C P(EXP TO 5.4 MG IN 79)	PRIMARY PHOSPHORUS REMOVAL	5.400 (24.548)	GEORGIAN BAY	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
PAISLEY VILLAGE PAISLEY WPCP	OXIDATION DITCH	.155 (.705)	SAUGEEN RIVER	MINISTRY
PETROLIA TOWN PETROLIA W P C P TERT-FILTER+LAGOON-	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	.700 (3.182)	BEAR CREEK	MINISTRY
POINT EDWARD VILLAGE POINT EDWARD WPCP	PRIMARY PHOSPHORUS REMOVAL	.570 (2.591)	ST. CLAIR RIVER	MINISTRY
PORT ELGIN TOWN PORT ELGIN WPCP	OXIDATION DITCH	1.420 (6.455)	SAUGEEN RIVER	MUNICIPALITY
PORT STANLEY VILLAGE PORT STANLEY LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.323 (1.468)	DITCH TO KETTLE CREEK	MINISTRY
RALEIGH TOWNSHIP S. W. REGIONAL CENTRE (CEDAR SPRINGS)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.500 (2.273)	LAKE ERIE	MINISTRY OF GOV'T SERVICES
RALEIGH & TILBURY E. TOWNSHIP MERLIN POLICE VILLAGE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.080 (.364)	FOXTON DR.- JEANETTES CK	MINISTRY
RIDGETOWN TOWN RIDGETOWN LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.350 (1.591)	GAWNE DR.TO MCGREGOR CK	MINISTRY
RODNEY VILLAGE RODNEY LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.120 (.546)	SIXTEEN MILE CK.	MINISTRY
SARNIA TOWNSHIP BRIGHT'S GROVE POLICE VILLAGE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.500 (2.273)	CREEK TO L.HURON	MINISTRY
SARNIA CITY MUNICIPAL PLANT	PRIMARY PHOSPHORUS REMOVAL	14.500 (65.917)	ST. CLAIR RIVER	MUNICIPALITY
SEAFORTH TOWN SEAFORTH LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.219 (.996)	CRESSWELL CREEK	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
SOMBRA (PORT LAMBTON) TOWNSHIP PORT LAMBTON LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.235 (1.068)	MARSHY CK.TO ST.CLAIR R.	MINISTRY
SOMBRA (PORT SOMBRA) TOWNSHIP PORT SOMBRA LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.197 (.896)	ST. CLAIR RIVER	MINISTRY
SOUTHAMPTON TOWN SOUTHAMPTON WPCP	OXIDATION DITCH	.670 (3.046)	SAUGEEN R.	MINISTRY
ST EDMUNDS TOWNSHIP TOBERMORY LAGOON *(EFF TO EXFIL PIT)	AERATED CELL PLUS LAGOON*	.084 (.382)	*(LAKE HURON)	MUNICIPALITY
ST MARY'S SEPARATED TOWN ST MARY'S WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.800 (3.637)	THAMES RIVER	MINISTRY
ST THOMAS CITY ST. THOMAS W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.750 (17.048)	KETTLE CREEK	MUNICIPALITY
STEPHEN TOWNSHIP HURON INDUSTRIAL PARK PLANT	CONVENTIONAL SECONDARY	.400 (1.818)	WILSON DR. TO AUSABLE R.	ONT. DEVELOPMENT CORPORATION
STRATFORD CITY STRATFORD WPCP	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	6.000 (27.276)	AVON RIVER	MINISTRY
STRATHROY TOWN STRATHROY LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.600 (2.728)	SYDENHAM RIVER	MUNICIPALITY
THEDFORD VILLAGE THEDFORD LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.100 (.455)	DECKER CREEK	MINISTRY
THORNBURY TOWN THORNBURY LAGOON	AERATED CELL PLUS LAGOON	.400 (1.818)	BEAVER RIVER	MINISTRY
TIBURY NORTH TOWNSHIP STONEY POINT P.V. LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.223 (1.014)	LITTLE CREEK	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
TILBURY TOWN TILBURY LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.240 (1.091)	TREMBLAY CREEK	MUNICIPALITY
TILBURY WEST TOWNSHIP COMBER LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.073 (.332)	GOVN'T DR. NO. 1 TO BIG CK	MINISTRY
TILLSONBURG TOWN TILLSONBURG WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.800 (8.183)	BIG OTTER CREEK	MINISTRY
TUCKERSMITH TOWNSHIP VAN ASTRA W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.450 (2.046)	MUN DR. TO BAYFIELD R.	MINISTRY
WALKERTON TOWN MUNICIPAL PLANT	CONVENTIONAL SECONDARY	1.000 (4.546)	SAUGEEN RIVER	MUNICIPALITY
WALLACE TOWNSHIP MIDWESTERN REG CENTRE LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.105 (.477)	LITTLE MAITLAND RIVER	MINISTRY OF GOV'T SERVICES
WALLACEBURG TOWN WALLACEBURG WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.500 (6.819)	SYDENHAM RIVER	MINISTRY
WATFORD VILLAGE WATFORD LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.210 (.955)	BEAR CREEK	MINISTRY
WEST LORNE VILLAGE WEST LORNE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.147 (.668)	ZOLLER DRAIN	MINISTRY
WESTMINSTER TOWNSHIP SOUTHLAND PARK PLANT LAMBETH	EXTENDED AERATION PHOSPHORUS REMOVAL	.058 (.264)	DINGMAN CREEK	MUNICIPALITY
WESTMINSTER TWP TOWNSHIP WESTMINSTER WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.250 (1.137)	DINGMAN CREEK	MINISTRY
WIARTON TOWN WIARTON LAGOON (22 A OR 2 CELLS IN 81)	CONVENTIONAL LAGOON CONTINUOUS	.150 (.682)	COLPOY BAY	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
WINDSOR CITY LITTLE RIVER PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	LITTLE RIVER	MUNICIPALITY
WINDSOR CITY WESTERLY PLANT	PRIMARY PHOSPHORUS REMOVAL	24.000 (109.104)	DETROIT RIVER	MUNICIPALITY
WINGHAM TOWN WINGHAM LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.300 (1.364)	MAITLAND RIVER	MINISTRY
WOODSTOCK CITY WOODSTOCK W PC P (EXP TO 8.0 MGD IN 79)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	THAMES RIVER	MUNICIPALITY
ZURICH VILLAGE ZURICH LAGOON	CONVENTIONAL LAGOON SEASONAL	.100 (.455)	MUN DRAIN TO L. HURON	MINISTRY

SOUTHWESTERN REGION

Area Wastewater Treatment Systems

Total Area Wastewater Treatment Systems	Total Capacity
2	33,500 MIGD (152,300 1000M^3)

AREA WASTEWATER TREATMENT SYSTEMS

SYSTEM: BELLE RIVER - MAIDSTONE POLLUTION CONTROL

Number of Plants: ONE Number of Municipalities Served: TWO

Operated By: THE MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
MAIDSTONE TWP.	Extended Aeration Phosphorus Removal	1.5 MIGD (6.8 $1000M^3$)	Belle River Town Maidstone Twp.	Lake St. Clair

SYSTEM: WINDSOR POLLUTION CONTROL

Number of Plants: TWO Number of Municipalities Served: FIVE

Operated By: WINDSOR PUBLIC UTILITIES COMMISSION

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
WINDSOR CITY (West Windsor Plant)	Primary Phosphorus Removal	24.0 MIGD (109.1 $1000M^3$)	Windsor City Sandwich West Twp. * Sandwich South Twp.	Detroit River
WINDSOR CITY (Little River Plant)	Conventional Secondary Phosphorus Removal	8.0 MIGD (36.4 $1000M^3$)	Windsor City * Techumseh Town * St. Clair Beach Village	Little River

* Ministry operated sanitary sewage collection systems are serving these municipalities.

West Central Region 2

Ministry of the Environment
Ontario

REGIONAL OFFICE
STONEY CREEK
140 Centennial Pkwy. N.
416-561-7410

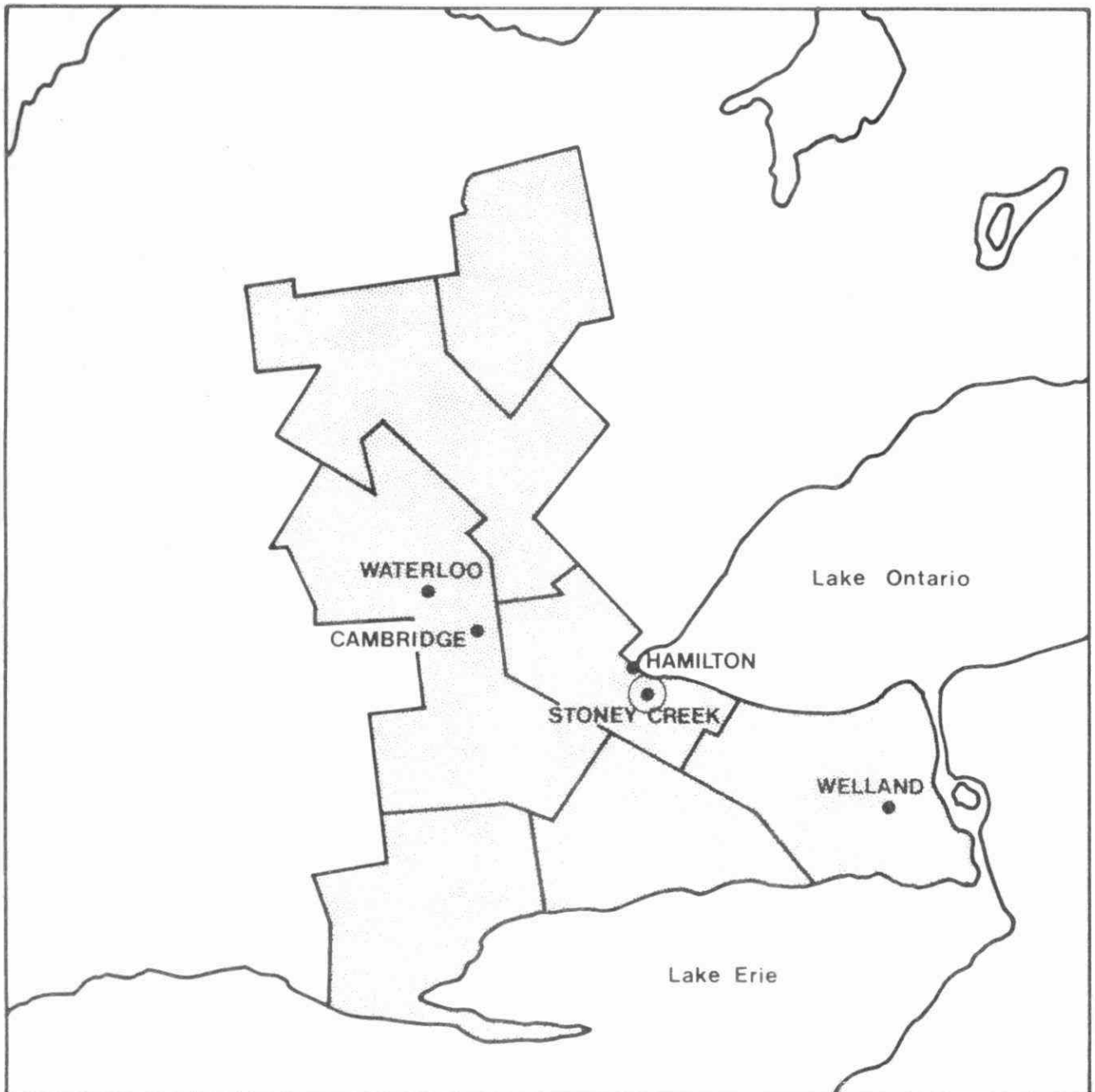
DISTRICT OFFICES
Welland
637-641 Niagara St. N.
416-735-0431

Cambridge
400 Clyde Road
P.O. Box 219
519-623-2080

West Central Region

Ministry of the Environment

Ontario



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WEST CENTRAL REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<----------** CAPACITY MIGD ($1000M^3$)---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	1	2	3	.900	16.400	17.300 (78.646)
CONVENTIONAL SECONDARY	13	14	27	69.940	150.065	220.005 (1,000.143)
MODIFIED SECONDARY	1	0	1	1.700		1.700 (7.728)
EXTENDED AERATION	4	0	4	.896		.896 (4.073)
HIGH RATE	1	0	1	2.050		2.050 (9.319)
CONVENTIONAL LAGOON CONTINUOUS	1	0	1	.130		.130 (.591)
CONVENTIONAL LAGOON SEASONAL	6	2	8	1.005	.381	1.386 (6.301)
AERATED CELL PLUS LAGOON	1	2	3	.470	1.095	1.565 (7.114)
OXIDATION DITCH	3	0	3	.542		.542 (2.464)
**** TOTALS ****	31	20	51	77.633 (352.920)	167.941 (763.460)	245.574 (1,116.379)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MGD = 4.546 $1000M^3$

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
ARTHUR VILLAGE ARTHUR LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.216 (.982)	CONESTOGA RIVER	MINISTRY
BRANTFORD CITY BRANTFORD WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	12.500 (56.825)	GRAND RIVER	MINISTRY
BRANTFORD TOWNSHIP CAINSVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.037 (.168)	FAIRCHILD CREEK	MUNICIPALITY
BRANTFORD TOWNSHIP AIRPORT PLANT	COMMUNAL SEPTIC TANK	.050 (.227)	GRAND RIVER	MUNICIPALITY
CAMBRIDGE (GALT) CITY GALT W P C P (NEW 2NDRY DIGESTER)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.500 (38.641)	GRAND RIVER	MINISTRY
CAMBRIDGE (HESPELER) CITY HESPELER WPCP	HIGH RATE PHOSPHORUS REMOVAL	2.050 (9.319)	SPEED RIVER	MINISTRY
CAMBRIDGE (PRESTON) CITY PRESTON WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.710 (16.866)	GRAND RIVER	MINISTRY
DELHI TOWNSHIP DELHI PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.700 (3.182)	BIG CREEK	MINISTRY
DUNDAS TOWN DUNDAS - KING STREET PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	4.000 (18.184)	COOTES PARADICE	MUNICIPALITY
DUNNVILLE TOWN OSWEGO PARK LAGOON	CONVENTIONAL LAGOON SEASONAL	.020 (.091)	OSWEGO CREEK	MINISTRY
DUNNVILLE TOWN MUNICIPAL PLANT	MODIFIED SECONDARY PHOSPHORUS REMOVAL	1.700 (7.728)	GRAND RIVER	MINISTRY
ELORA VILLAGE ELORA WPCP (EXP TO.675 MGD IN SEP 1980)	EXTENDED AERATION PHOSPHORUS REMOVAL	.083 (.377)	GRAND RIVER	MINISTRY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
FERGUS TOWN FERGUS WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.100 (5.001)	GRAND RIVER	MINISTRY
FLAMBOROUGH TOWNSHIP WATERDOWN WPCP (TERTIARY SAND FILTER)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	.600 (2.728)	GRINDSTONE CREEK	MUNICIPALITY
FORT ERIE TOWN CRYSTAL BEACH W P C P	CONVENTIONAL SECONDARY EXTENDED AERATION PHOSPHORUS REMOVAL	.855 (3.887)	LAKE ERIE	MUNICIPALITY
FORT ERIE TOWN RIVER ROAD WPCP (EXP TO 3.6 MGD IN 79)	PRIMARY PHOSPHORUS REMOVAL	3.600 (16.366)	NIAGARA RIVER	MUNICIPALITY
GRAND VALLEY VILLAGE GRAND VALLEY WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.132 (.600)	GRAND RIVER	MINISTRY
GRIMSBY TOWN WEST END LAGOON	AERATED CELL PLUS LAGOON	.250 (1.137)	LAKE ONTARIO	MUNICIPALITY
GRIMSBY TOWN BAKER ROAD WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	LAKE ONTARIO	MUNICIPALITY
GUELPH CITY GUELPH W P C P (SECTION ONE)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	2.000 (9.092)	SPEED RIVER	MUNICIPALITY
GUELPH CITY GUELPH W P C P (SECTION TWO)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	SPEED RIVER	MUNICIPALITY
GUELPH CITY GUELPH W P C P (SECTION THREE)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	SPEED RIVER	MUNICIPALITY
THESE SECTIONS OPERATE AS ONE PLANT				
HALDIMAND TOWN CALEDONIA PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.500 (2.273)	GRAND RIVER	MINISTRY
HALDIMAND (CAYUGA) TOWN CAYUGA WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.200 (.909)	GRAND RIVER	MINISTRY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
HALDIMAND (HAGERSVILLE) TOWN HAGERSVILLE WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.200 (.909)	SANDUSK CREEK	MINISTRY
HAMILTON CITY (PHOSPHORUS REMOVAL ACHIEVED) MUNICIPAL PLANT (WITHOUT CHEMICAL FEED)	CONVENTIONAL SECONDARY	90.000 (409.140)	HAMILTON HARBOUR	MUNICIPALITY
HARRISTON TOWN HARRISTON LAGOON	CONVENTIONAL LAGOON SEASONAL	.219 (.996)	MAITLAND RIVER	MINISTRY
KITCHENER CITY KITCHENER W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	27.000 (122.742)	GRAND RIVER	MINISTRY
MOUNT FOREST TOWN MUNICIPAL PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.540 (2.455)	SAUGEEN RIVER	MUNICIPALITY
NANTICOKE CITY PORT DOVER W P C P	PRIMARY PHOSPHORUS REMOVAL	.900 (4.091)	LAKE ERIE	MINISTRY
NANTICOKE CITY WATERFORD LAGOON	AERATED CELL PLUS LAGOON PHOSPHORUS REMOVAL	.470 (2.137)	NANTICOKE CREEK	MINISTRY
NANTICOKE CITY JARVIS LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.110 (.500)	SANDUSK CREEK	MINISTRY
NIAGARA FALLS CITY STAMFORD W P C P (-EXPAND TO 12.8 MGD 79)	PRIMARY PHOSPHORUS REMOVAL	12.800 (58.189)	CHIPPAWA POWER CANAL	MUNICIPALITY
NIAGARA ON THE LAKE TOWN NIAGARA-ON-THE-LAKE LAGOON	AERATED CELL PLUS LAGOON	.845 (3.841)	LAKE ONTARIO	MUNICIPALITY
NORFOLK TOWNSHIP PORT ROWAN LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.160 (.727)	MUD CREEK	MINISTRY
ORANGEVILLE TOWN ORANGEVILLE WPCP - *TERTIARY SAND FILTER	CONVENTIONAL SECONDARY *EFFLUENT POLISHING PHOSPHORUS REMOVAL	1.500 (6.819)	CREDIT RIVER	MINISTRY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
PALMERSTON TOWN PALMERSTON WPCP *(- NO PRIMARY CLARIFIERS)	*CONVENTIONAL SECONDARY	.150 (.682)	WALLACE DRAIN	MINISTRY
PARIS TOWN PARIS WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.500 (2.273)	GRAND RIVER	MINISTRY
PORT COLBORNE CITY WEST PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.350 (6.137)	WELLAND CANAL	MUNICIPALITY
PORT COLBORNE CITY EAST PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.850 (3.864)	WELLAND CANAL	MUNICIPALITY
SHELBURNE VILLAGE (OXIDATION DITCH + TERTIARY FILTER (PHOSPHORUS REMOVAL) SHELBURNE LAGOON (- EXP TO.45 MGD IN 1980)	CONVENTIONAL LAGOON CONTINUOUS	.130 (.591)	BOYNE RIVER	MINISTRY
SIMCOE TOWN SIMCOE WPCP	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.400 (15.456)	LYNN RIVER	MINISTRY
ST CATHARINES CITY PORT DALHOUSIE PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	13.500 (61.371)	LAKE ONTARIO	MUNICIPALITY
ST CATHARINES CITY PORT WELLER PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	12.370 (56.234)	PORT WELLER HARBOUR	MUNICIPALITY
WATERLOO CITY WATERLOO WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.000 (45.460)	GRAND RIVER	MINISTRY
WELLAND CITY MUNICIPAL PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	12.000 (54.552)	WELLAND RIVER	MUNICIPALITY
WELLESLEY TOWNSHIP WELLESLEY WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.110 (.500)	NITH RIVER	MINISTRY
WEST LINCOLN TOWNSHIP SMITHVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL	.344 (1.564)	TWENTY MILE CREEK	MUNICIPALITY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
WILMOT TOWNSHIP BADEN PLANT	EXTENDED AERATION PHOSPHORUS REMOVAL	.203 (.923)	BADEN CREEK	MINISTRY
WILMOT TOWNSHIP NEW HAMBURG LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.280 (1.273)	NITH RIVER	MINISTRY
WOOLWICH (ELMIRA) TOWNSHIP ELMIRA WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.680 (3.091)	CANAGAGIGUE CREEK	MINISTRY
WOOLWICH (ST.JACOBS) TOWNSHIP ST JACOBS POLICE VILLAGE PLANT	OXIDATION DITCH PHOSPHORUS REMOVAL	.210 (.955)	CONESTOGO RIVER	MINISTRY

WEST CENTRAL REGION

Regional Municipalities

Regional Municipalities	Total Capacity (WASTEWATER TREATMENT)
HALDIMAND NORFOLK	218.467 MIGD
HAMILTON WENTWORTH	(993.152 $1000M^3$)
NIAGARA	
WATERLOO	

REGIONAL MUNICIPALITY OF HALDIMAND-NORFOLK

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
DELHI TOWNSHIP DELHI PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.700 (3.182)	BIG CREEK	MINISTRY
DUNNVILLE TOWN OSWEGO PARK LAGOON	CONVENTIONAL LAGOON SEASONAL	.020 (.091)	OSWEGO CREEK	MINISTRY
DUNNVILLE TOWN MUNICIPAL PLANT	MODIFIED SECONDARY PHOSPHORUS REMOVAL	1.700 (7.728)	GRAND RIVER	MINISTRY
HALDIMAND TOWN CALEDONIA PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.500 (2.273)	GRAND RIVER	MINISTRY
HALDIMAND (CAYUGA) TOWN CAYUGA WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.200 (.909)	GRAND RIVER	MINISTRY
HALDIMAND (HAGERSVILLE) TOWN HAGERSVILLE WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.200 (.909)	SANDUSK CREEK	MINISTRY
NANTICOKE CITY WATERFORD LAGOON	AERATED CELL PLUS LAGOON PHOSPHORUS REMOVAL	.470 (2.137)	NANTICOKE CREEK	MINISTRY
NANTICOKE CITY PORT DOVER W P C P	PRIMARY PHOSPHORUS REMOVAL	.900 (4.091)	LAKE ERIE	MINISTRY
NANTICOKE CITY JARVIS LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.110 (.500)	SANDUSK CREEK	MINISTRY
NORFOLK TOWNSHIP PORT ROWAN LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.160 (.727)	MUD CREEK	MINISTRY
SIMCOE TOWN SIMCOE WPCP	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.400 (15.456)	LYNN RIVER	MINISTRY
TOTAL CAPACITY		8.360 (38.005)		

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (3 (1000M))	WATERCOURSE	OPERATED BY
DUNDAS TOWN DUNDAS - KING STREET PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	4.000 (18.184)	COOTES PARADICE	MUNICIPALITY
FLAMBOROUGH TOWNSHIP WATERDOWN WPCP (TERTIARY SAND FILTER)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	.600 (2.728)	GRINDSTONE CREEK	MUNICIPALITY
HAMILTON CITY (PHOSPHORUS REMOVAL ACHIEVED) MUNICIPAL PLANT (WITHOUT CHEMICAL FEED)	CONVENTIONAL SECONDARY	90.000 (409.140)	HAMILTON HARBOUR	MUNICIPALITY
TOTAL CAPACITY		94.600 (430.052)		

REGIONAL MUNICIPALITY OF NIAGARA

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
FORT ERIE TOWN CRYSTAL BEACH W P C P	CONVENTIONAL SECONDARY EXTENDED AERATION PHOSPHORUS REMOVAL	.855 (3.887)	LAKE ERIE	MUNICIPALITY
FORT ERIE TOWN RIVER ROAD WPCP (EXP TO 3.6 MGD IN 79)	PRIMARY PHOSPHORUS REMOVAL	3.600 (16.366)	NIAGARA RIVER	MUNICIPALITY
GRIMSBY TOWN WEST END LAGOON	AERATED CELL PLUS LAGOON	.250 (1.137)	LAKE ONTARIO	MUNICIPALITY
GRIMSBY TOWN BAKER ROAD WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	LAKE ONTARIO	MUNICIPALITY
NIAGARA FALLS CITY STAMFORD W P C P (-EXPAND TO 12.8 MGD 79)	PRIMARY PHOSPHORUS REMOVAL	12.800 (58.189)	CHIPPAWA POWER CANAL	MUNICIPALITY
NIAGARA ON THE LAKE TOWN NIAGARA-ON-THE-LAKE LAGOON	AERATED CELL PLUS LAGOON	.845 (3.841)	LAKE ONTARIO	MUNICIPALITY
PORT COLBORNE CITY WEST PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.350 (6.137)	WELLAND CANAL	MUNICIPALITY
PORT COLBORNE CITY EAST PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.850 (3.864)	WELLAND CANAL	MUNICIPALITY
ST CATHARINES CITY PORT WELLER PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	12.370 (56.234)	PORT WELLER HARBOUR	MUNICIPALITY
ST CATHARINES CITY PORT DALHOUSIE PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	13.500 (61.371)	LAKE ONTARIO	MUNICIPALITY
WELLAND CITY MUNICIPAL PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	12.000 (54.552)	WELLAND RIVER	MUNICIPALITY

REGIONAL MUNICIPALITY OF NIAGARA

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
WEST LINCOLN TOWNSHIP SMITHVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL	.344 (1.564)	TWENTY MILE CREEK	MUNICIPALITY
TOTAL CAPACITY		62.764 (285.325)		

REGIONAL MUNICIPALITY OF WATERLOO

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
CAMBRIDGE (GALT) CITY GALT W P C P (NEW 2NDRY DIGESTER)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.500 (38.641)	GRAND RIVER	MINISTRY
CAMBRIDGE (HESPELER) CITY HESPELER WPCP	HIGH RATE PHOSPHORUS REMOVAL	2.050 (9.319)	SPEED RIVER	MINISTRY
CAMBRIDGE (PRESTON) CITY PRESTON WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.710 (16.866)	GRAND RIVER	MINISTRY
KITCHENER CITY KITCHENER W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	27.000 (122.742)	GRAND RIVER	MINISTRY
WATERLOO CITY WATERLOO WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.000 (45.460)	GRAND RIVER	MINISTRY
WELLESLEY TOWNSHIP WELLESLEY WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.110 (.500)	NITH RIVER	MINISTRY
WILMOT TOWNSHIP NEW HAMBURG LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.280 (1.273)	NITH RIVER	MINISTRY
WILMOT TOWNSHIP BADEN PLANT	EXTENDED AERATION PHOSPHORUS REMOVAL	.203 (.923)	BADEN CREEK	MINISTRY
WOOLWICH (ELMIRA) TOWNSHIP ELMIRA WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.680 (3.091)	CANAGAGIGUE CREEK	MINISTRY
WOOLWICH (ST.JACOBS) TOWNSHIP ST JACOBS POLICE VILLAGE PLANT	OXIDATION DITCH PHOSPHORUS REMOVAL	.210 (.955)	CONESTOGO RIVER	MINISTRY
TOTAL CAPACITY		52.743 (239.770)		

WEST CENTRAL REGION

Area Wastewater Treatment Systems

Total Area Wastewater Treatment Systems	Total Capacity
4	131.870 MIGD (599.500 1000M^3)

AREA WASTEWATER TREATMENT SYSTEMS

SYSTEM: GRIMSBY / LINCOLN POLLUTION CONTROL

Number of Plants: ONE
Number of Municipalities Served: TWO
Operated By: REGIONAL MUNICIPALITY OF NIAGARA

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
GRIMSBY TOWN (Baker Rd. WPCP)	Conventional Secondary Phosphorus Removal	4.0 MIGD ($18.2\ 1000M^3$)	Grimsby Town Lincoln Town	Lake Ontario

SYSTEM: HAMILTON POLLUTION CONTROL

Number of Plants: ONE
Number of Municipalities Served: THREE
Operated By: REGIONAL MUNICIPALITY OF HAMILTON WENTWORTH

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
HAMILTON CITY (Woodward Ave. WPCP)	Conventional Secondary	90.0 MIGD ($409.1\ 1000M^3$)	Ancaster Town Hamilton City Stoney Creek Town	Hamilton Harbour

SYSTEM: ST. CATHARINES POLLUTION CONTROL

Number of Plants: TWO Number of Municipalities Served: TWO
Operated By: REGIONAL MUNICIPALITY OF NIAGARA

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
ST. CATHARINES CITY (Port Weller)	Conventional Secondary Phosphorus Removal	12.37 MIGD ($56.23\ 1000M^3$)	St. Catharines Thorold Town	Port Weller Harbour
ST. CATHARINES CITY (Port Dalhousie)	Conventional Secondary Phosphorus Removal	13.50 MIGD ($61.37\ 1000M^3$)	St. Catharines Thorold Town	Lake Ontario

SYSTEM: WELLAND POLLUTION CONTROL

Number of Plants: ONE Number of Municipalities Served: TWO
Operated By: REGIONAL MUNICIPALITY OF NIAGARA

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
WELLAND CITY	Conventional Secondary Phosphorus Removal	12.0 MIGD ($54.6\ 1000M^3$)	Pelham Town Welland City	Welland River

Central Region

3

Ontario

Ministry of the Environment

REGIONAL OFFICE

DON MILLS
150 Ferrand Dr.
416-424-3000

DISTRICT OFFICES

Barrie
12 Fairview Rd.
705-726-1730

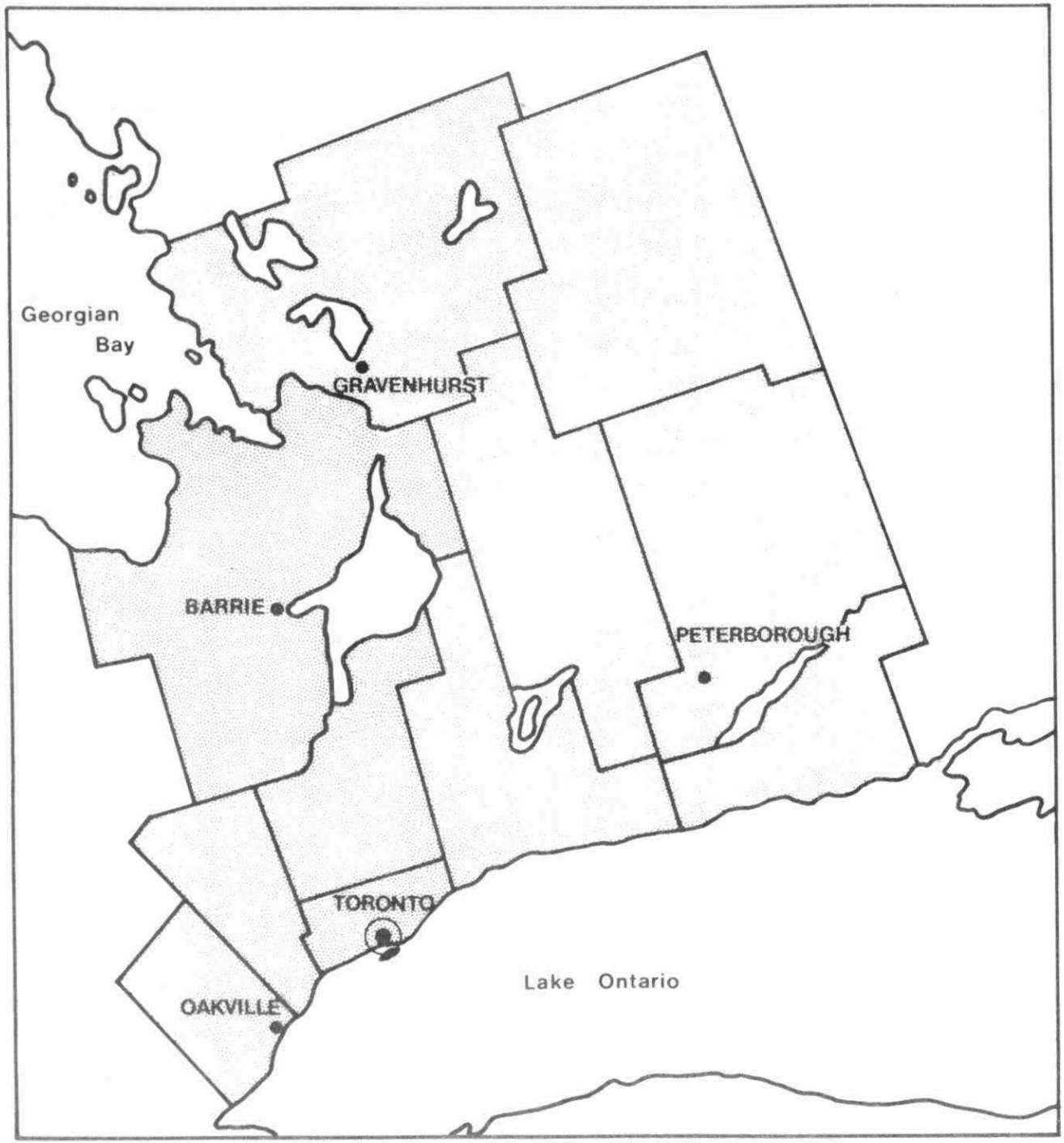
Muskoka-Haliburton
Gravenhurst Shopping Centre
705-687-3408

Peterborough
139 George St. N.
705-743-2972

Halton-Peel
1226 White Oaks Blvd.
Oakville
416-844-5747

SUB-OFFICE

Huntsville
100 Main St. E.
705-789-2386



Central Region

3

Ministry of the Environment
Ontario

REGIONAL OFFICE

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CENTRAL REGION SUMMARY

TREATMENT TYPE	NUMBER			** CAPACITY MIGD ($1000M^3$)		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	1	1	2	1.250	4.200	5.450 (24.776)
CONVENTIONAL SECONDARY	2	29	31	51.000	368.120	419.120 (1,905.320)
CONTACT STABILIZATION	1	2	3	.230	2.060	2.290 (10.410)
EXTENDED AERATION	5	9	14	13.170	25.838	39.008 (177.330)
TRICKLING FILTER	0	2	2		8.000	8.000 (36.368)
HIGH RATE	1	1	2	.800	2.000	2.800 (12.729)
CONVENTIONAL LAGOON CONTINUOUS	0	4	4		2.855	2.855 (12.979)
CONVENTIONAL LAGOON SEASONAL	3	6	9	.700	1.904	2.604 (11.838)
LAGOON WITH SPRAY	1	0	1	.135		.135 (.614)
AERATED CELL PLUS LAGOON	0	4	4		.966	.966 (4.391)
OXIDATION DITCH	3	0	3	.613		.613 (2.787)
**** TOTALS ****	17	58	75	67.898 (308.664)	415.943 (1,890.877)	483.841 (2,199.541)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MGD = 4.546 $1000M^3$

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
AJAX TOWN DUFFIN CREEK NO 2 (PHASE OUT APR 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.100 (14.093)	DUFFIN CREEK	MUNICIPALITY
AJAX TOWN DUFFIN CREEK NO 1 (PHASE OUT APR 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.400 (1.818)	DUFFIN CREEK	MUNICIPALITY
ALLISTON TOWN ALLISTON WPCP	EXTENDED AERATION	.770 (3.500)	BOYNE RIVER	MINISTRY
ANSON HINDON MINDEN TOWNSHIP MINDEN W P C P (STEP AER .346 MG)	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.208 (.946)	GULL RIVER	MUNICIPALITY
AURORA TOWN AURORA PLANT	EXTENDED AERATION EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.000 (13.638)	AURORA CREEK	MUNICIPALITY
BARRIE CITY MUNICIPAL PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	6.000 (27.276)	KEMPENFELT BAY	MUNICIPALITY
BEETON VILLAGE BEETON LAGOON	CONVENTIONAL LAGOON SEASONAL	.300 (1.364)	EXFILTRATE TO BEETON CR.	MINISTRY
BICROFT IMPROVEMENT DISTRICT CARDIFF (EXFILTRATION LAGOON)	CONVENTIONAL LAGOON (CONTINUOUS)	.100 (.455)	EXFILTRATE TO MINK CREEK	MUNICIPALITY
BRACEBRIDGE TOWN BRACEBRIDGE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.454 (2.064)	MUSKOKA RIVER	MUNICIPALITY
BRADFORD TOWN BRADFORD W P C P	HIGH RATE CONVENTIONAL LAGOON CONTINUOUS PHOSPHORUS REMOVAL	.800 (3.637)	SCHOMBERG RIVER	MINISTRY
BRIGHTON VILLAGE BRIGHTON LAGOON (CONTINUOUS DISCHARGE)	AERATED CELL PLUS LAGOON PHOSPHORUS REMOVAL	.136 (.618)	BUTLER CREEK	MUNICIPALITY
BROCK TOWNSHIP CANNINGTON LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.235 (1.068)	BEAVERTON RIVER	MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
BROCK TOWNSHIP BEAVERTON LAGOON (EXP TO.382 MGD IN 80)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.235 (1.068)	LAKE SIMCOE	MUNICIPALITY
BURLINGTON CITY SKYWAY W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	20.500 (93.193)	HAMILTON HARBOUR	MUNICIPALITY
BURLINGTON CITY DRURY LANE (TO CLOSE-FLOW TO SKYWAY 79)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	2.500 (11.365)	LAKE ONTARIO	MUNICIPALITY
CALEDON TOWN BOLTON WPCP(EXPAND TO 1.5 MG PROPOSED)	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	1.000 (4.546)	HUMBER RIVER	MUNICIPALITY
CAMPBELLFORD TOWN CAMPBELLFORD W P C P	CONVENTIONAL SECONDARY	1.000 (4.546)	TRENT RIVER	MINISTRY
COBOURG TOWN COBOURG WPCP (PROPOSED 2ND PLANT IN 80)	CONVENTIONAL SECONDARY	3.530 (16.047)	COBOURG BROOK	MUNICIPALITY
COLBORNE VILLAGE COLBORNE LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.090 (.409)	COLBORNE CREEK	MUNICIPALITY
COLDWATER VILLAGE COLDWATER WPCP	EXTENDED AERATION	.120 (.546)	COLDWATER RIVER	MINISTRY
COLLINGWOOD TOWN MUNICIPAL PLANT	PRIMARY PHOSPHORUS REMOVAL	4.200 (19.093)	GEORGIAN BAY	MUNICIPALITY
DYSART-ET-AL TOWNSHIP HALIBURTON WPCP (- TERTIARY SAND FILTER)	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.210 (.955)	DRAG RIVER (GRASS LAKE)	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP MOUNT ALBERT (EF-FILT STOR-PND F-C)	AERATED CELL PLUS LAGOON EFFLUENT POLISHING PHOSPHORUS REMOVAL	.150 (.682)	MOUNT ALBERT CREEK	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP HOLLAND LANDING LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.300 (1.364)	HOLLAND RIVER	MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ELMVALE VILLAGE ELMVALE LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.165 (.750)	WYE RIVER	MUNICIPALITY
FENELON FALLS VILLAGE FENELON FALLS WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.220 (1.000)	FENELON RIVER	MINISTRY
GEORGINA TOWNSHIP SUTTON LAGOON	AERATED CELL PLUS LAGOON PHOSPHORUS REMOVAL	.450 (2.046)	BLACK RIVER	MUNICIPALITY
GRAVENHURST TOWN MUNICIPAL PLANT	EXTENDED AERATION PHOSPHORUS REMOVAL	.670 (3.046)	MUSKOKA LAKE	MUNICIPALITY
HALTON HILLS TOWN GEORGETOWN WPCP (- TERTIARY SAND FILTER)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	3.000 (13.638)	SILVER CREEK	MUNICIPALITY
HALTON HILLS TOWN ACTON W P C P (- LAGOON + SLOW SAND FILT)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	1.000 (4.546)	BLACK CREEK	MUNICIPALITY
HASTINGS VILLAGE HASTINGS WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.233 (1.059)	TRENT RIVER	MINISTRY
HAVELOCK VILLAGE HAVELOCK LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.160 (.727)	PLATO CREEK	MINISTRY
HUNTSVILLE TOWN HUNTSVILLE W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.546)	MUSKOKA RIVER	MUNICIPALITY
LAKEFIELD VILLAGE LAKEFIELD LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.240 (1.091)	OTONABEE RIVER	MINISTRY
LINDSAY TOWN LINDSAY LAGOON	CONVENTIONAL LAGOON CONTINUOUS AERATED CELL PHOSPHORUS REMOVAL	2.500 (11.365)	SCUGOG RIVER	MUNICIPALITY
MARKHAM TOWN TUCLOR LANE W P C P (PHASE OUT MAY 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.800 (8.183)	ROUGE RIVER	MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
MARKHAM TOWN UNIONVILLE W P C P (PHASE OUT MAY 80)	CONVENTIONAL SECONDARY CONVENTIONAL LAGOON CONTINUOUS PHOSPHORUS REMOVAL	.800 (3.637)	ROUGE RIVER	MUNICIPALITY
MARKHAM TOWN JOHN STREET W P C P (PHASE OUT JUN 81)	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	.750 (3.410)	EAST DON RIVER	MUNICIPALITY
METRO TORONTO CITY NORTH TORONTO PLANT (EAST YORK)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.000 (45.460)	DON RIVER	MUNICIPALITY
METRO TORONTO CITY HIGHLAND CREEK WPCP (EXP TO 48 MGD IN 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	32.000 (145.472)	HIGHLAND CREEK	MUNICIPALITY
METRO TORONTO CITY HUMBER PLANT WPCP (EXP TO 75 MGD IN 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	62.500 (284.125)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY MAIN PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	180.000 (818.280)	LAKE ONTARIO	MUNICIPALITY
MIDLAND TOWN MIDLAND WPCP	PRIMARY PHOSPHORUS REMOVAL	1.250 (5.683)	MIDLAND BAY	MINISTRY
MILLBROOK VILLAGE MILLBROOK WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.200 (.909)	BAXTER CREEK	MINISTRY
MILTON TOWN MILTON W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	2.840 (12.911)	OAKVILLE CREEK	MUNICIPALITY
MISSISSAUGA CITY LAKEVIEW WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	50.000 (227.300)	LAKE ONTARIO	MINISTRY
MISSISSAUGA CITY CLARKSON WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	12.000 (54.552)	LAKE ONTARIO	MINISTRY
MUSKOKA LAKES TOWNSHIP BALA PLANT	COMMUNAL SEPTIC TANK PHOSPHORUS REMOVAL	.020 (.091)	LONG LAKE	MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
MUSKOKA LAKES TOWNSHIP PORT CARLING WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.120 (.546)	INDIAN RIVER	MUNICIPALITY
NEWCASTLE TOWN NEWCASTLE PLANT	EXTENDED AERATION	.280 (1.273)	LAKE ONTARIO	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT TWO	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.546)	SOPER CREEK	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT ONE	TRICKLING FILTER PHOSPHORUS REMOVAL	.500 (2.273)	SOPER CREEK	MUNICIPALITY
NEWMARKET TOWN NEWMARKET WPCP	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.000 (13.638)	HOLLAND RIVER	MUNICIPALITY
NORWOOD VILLAGE NORWOOD WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.160 (.727)	OUSE RIVER	MINISTRY
OAKVILLE TOWN SOUTH EAST PLANT (EXPAND TO 5.0 IN 79)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	5.000 (22.730)	LAKE ONTARIO	MUNICIPALITY
OAKVILLE TOWN SOUTH WEST W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.500 (47.733)	LAKE ONTARIO	MUNICIPALITY
OMEMEE VILLAGE OMEMEE LAGOON	LAGOON WITH SPRAY	.135 (.614)	PIGEON RIVER	MINISTRY
ORILLIA CITY ORILLIA W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	LAKE SIMCOE	MUNICIPALITY
OSHAWA CITY HARMONY CR NO 1	TRICKLING FILTER PHOSPHORUS REMOVAL	7.500 (34.095)	LAKE ONTARIO	MUNICIPALITY
OSHAWA CITY HARMONY CR NO 2	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	7.500 (34.095)	LAKE ONTARIO	MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
PENETANGUISHENE TOWN MUNICIPAL PLANT	CONTACT STABILIZATION PHOSPHORUS REMOVAL	.660 (3.000)	PENETANG BAY	MUNICIPALITY
PETERBOROUGH CITY PETERBOROUGH PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	12.000 (54.552)	OTONABEE RIVER	MUNICIPALITY
PICKERING TOWN FRENCHMANS BAY WPCP (PHASE OUT APR 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.500 (15.911)	LAKE ONTARIO	MUNICIPALITY
PORT HOPE TOWN PORT HOPE WPCP	HIGH RATE PHOSPHORUS REMOVAL	2.000 (9.092)	LAKE ONTARIO	MUNICIPALITY
PORT MC NICOLL VILLAGE PORT MC NICOLL WPCP	CONTACT STABILIZATION PHOSPHORUS REMOVAL	.230 (1.046)	GEORGIAN BAY	MINISTRY
RICHMOND HILL TOWN NORTH DON W P C P (PHASE OUT JUN 81)	CONTACT STABILIZATION EFFLUENT POLISHING PHOSPHORUS REMOVAL	1.400 (6.364)	LITTLE DON RIVER	MUNICIPALITY
RICHMOND HILL TOWN PUGSLEY WPCP (PHASE OUT IN 1981)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.600 (7.274)	GERMAN MILLS CREEK	MUNICIPALITY
SCUGOG TOWNSHIP PORT PERRY LAGOON (EXP TO .7 MGD IN 80)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.400 (1.818)	LAKE SCUGOG	MUNICIPALITY
SMITH TOWNSHIP WOODLAND ACRES W P C P	EXTENDED AERATION	.080 (.364)	OTONABEE RIVER	MINISTRY
STAYNER TOWN STAYNER LAGOON *(-OPER SWITCH- 79)	AERATED CELL PLUS LAGOON (SEASONAL DISCHARGE)	.230 (1.046)	LAMONT CREEK	*MUNICIPALITY
TOTTENHAM VILLAGE MUNICIPAL PLANT	CONVENTIONAL LAGOON SEASONAL	.280 (1.273)	BEETON CREEK	MUNICIPALITY
UXBRIDGE TOWNSHIP UXBRIDGE PLANT	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.800 (3.637)	UXBRIDGE BROOK	MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
VAUGHAN TOWN KLEINBERG PLANT	EXTENDED AERATION	.050 (.227)	HUMBER RIVER	MUNICIPALITY
WHITBY TOWN CORBETT CREEK WPCP (EXP TO 8 MGD IN 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	LAKE ONTARIO	MUNICIPALITY
WHITBY TOWN PRINGLE PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.250 (14.775)	PRINGLE CREEK	MUNICIPALITY
WHITCHURCH - STOUFFVILLE TOWN STOUFFVILLE WPCP(EXP TO .75 MG PROPOSED)	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	.550 (2.500)	DUFFIN CREEK	MUNICIPALITY

CENTRAL REGION

Regional Municipalities

Regional Municipalities		Total Capacity (WASTEWATER TREATMENT)
DURHAM	HALTON	441.654 MIGD
PEEL	YORK	(2007.759 $1000M^3$)
METRO TORONTO		
DISTRICT MUNICIPALITY OF MUSKOKA		

REGIONAL MUNICIPALITY OF DURHAM

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
AJAX TOWN DUFFIN CREEK NO 2 (PHASE OUT APR 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.100 (14.093)	DUFFIN CREEK	MUNICIPALITY
AJAX TOWN DUFFIN CREEK NO 1 (PHASE OUT APR 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.400 (1.818)	DUFFIN CREEK	MUNICIPALITY
BROCK TOWNSHIP CANNINGTON LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.235 (1.068)	BEAVERTON RIVER	MUNICIPALITY
BROCK TOWNSHIP BEAVERTON LAGOON (EXP TO.382 MGD IN 80)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.235 (1.068)	LAKE SIMCOE	MUNICIPALITY
NEWCASTLE TOWN NEWCASTLE PLANT	EXTENDED AERATION	.280 (1.273)	LAKE ONTARIO	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT ONE	TRICKLING FILTER PHOSPHORUS REMOVAL	.500 (2.273)	SOPER CREEK	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT TWO	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.546)	SOPER CREEK	MUNICIPALITY
OSHAWA CITY HARMONY CR NO 2	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	7.500 (34.095)	LAKE ONTARIO	MUNICIPALITY
OSHAWA CITY HARMONY CR NO 1	TRICKLING FILTER PHOSPHORUS REMOVAL	7.500 (34.095)	LAKE ONTARIO	MUNICIPALITY
PICKERING TOWN FRENCHMANS BAY WPCP (PHASE OUT APR 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.500 (15.911)	LAKE ONTARIO	MUNICIPALITY
SCUGOG TOWNSHIP PORT PERRY LAGOON (EXP TO .7 MGD IN 80)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.400 (1.818)	LAKE SCUGOG	MUNICIPALITY

REGIONAL MUNICIPALITY OF DURHAM

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
UXBRIDGE TOWNSHIP UXBRIDGE PLANT	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.800 (3.637)	UXBRIDGE BROOK	MUNICIPALITY
WHITBY TOWN CORBETT CREEK WPCP (EXP TO 8 MGD IN 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	LAKE ONTARIO	MUNICIPALITY
WHITBY TOWN PRINGLE PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.250 (14.775)	PRINGLE CREEK	MUNICIPALITY
TOTAL CAPACITY		32.700 (148.654)		

REGIONAL MUNICIPALITY OF HALTON

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
BURLINGTON CITY DRURY LANE (TO CLOSE-FLOW TO SKYWAY 79)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	2.500 (11.365)	LAKE ONTARIO	MUNICIPALITY
BURLINGTON CITY SKYWAY W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	20.500 (93.193)	HAMILTON HARBOUR	MUNICIPALITY
HALTON HILLS TOWN GEORGETOWN WPCP (- TERTIARY SAND FILTER)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	3.000 (13.638)	SILVER CREEK	MUNICIPALITY
HALTON HILLS TOWN ACTON W P C P (- LAGOON + SLOW SAND FILT)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	1.000 (4.546)	BLACK CREEK	MUNICIPALITY
MILTON TOWN MILTON W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	2.840 (12.911)	OAKVILLE CREEK	MUNICIPALITY
OAKVILLE TOWN SOUTH EAST PLANT (EXPAND TO 5.0 IN 79)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	5.000 (22.730)	LAKE ONTARIO	MUNICIPALITY
OAKVILLE TOWN SOUTH WEST W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.500 (47.733)	LAKE ONTARIO	MUNICIPALITY
TOTAL CAPACITY		45.340 (206.116)		

METROPOLITAN TORONTO

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
METRO TORONTO CITY NORTH TORONTO PLANT (EAST YORK)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.000 (45.460)	DON RIVER	MUNICIPALITY
METRO TORONTO CITY HIGHLAND CREEK WPCP (EXP TO 48 MGD IN 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	32.000 (145.472)	HIGHLAND CREEK	MUNICIPALITY
METRO TORONTO CITY HUMBER PLANT WPCP (EXP TO 75 MGD IN 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	62.500 (284.125)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY MAIN PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	180.000 (818.280)	LAKE ONTARIO	MUNICIPALITY
TOTAL CAPACITY		284.500 (1,293.337)		

DISTRICT MUNICIPALITY OF MUSKOKA

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
BRACEBRIDGE TOWN BRACEBRIDGE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.454 (2.064)	MUSKOKA RIVER	MUNICIPALITY
GRAVENHURST TOWN MUNICIPAL PLANT	EXTENDED AERATION PHOSPHORUS REMOVAL	.670 (3.046)	MUSKOKA LAKE	MUNICIPALITY
HUNTSVILLE TOWN HUNTSVILLE W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.546)	MUSKOKA RIVER	MUNICIPALITY
MUSKOKA LAKES TOWNSHIP PORT CARLING WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.120 (.546)	INDIAN RIVER	MUNICIPALITY
MUSKOKA LAKES TOWNSHIP BALA PLANT	COMMUNAL SEPTIC TANK PHOSPHORUS REMOVAL	.020 (.091)	LONG LAKE	MUNICIPALITY
TOTAL CAPACITY		2.264 (10.292)		

REGIONAL MUNICIPALITY OF PEEL

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
CALEDON TOWN BOLTON WPCP (EXPAND TO 1.5 MG PROPOSED)	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	1.000 (4.546)	HUMBER RIVER	MUNICIPALITY
MISSISSAUGA CITY LAKEVIEW WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	50.000 (227.300)	LAKE ONTARIO	MINISTRY
MISSISSAUGA CITY CLARKSON WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	12.000 (54.552)	LAKE ONTARIO	MINISTRY
TOTAL CAPACITY		63.000 (286.398)		

REGIONAL MUNICIPALITY OF YORK

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
AURORA TOWN AURORA PLANT	EXTENDED AERATION EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.000 (13.638)	AURORA CREEK	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP MOUNT ALBERT (EF-FILT STOR-PND F-C)	AERATED CELL PLUS LAGOON EFFLUENT POLISHING PHOSPHORUS REMOVAL	.150 (.682)	MOUNT ALBERT CREEK	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP HOLLAND LANDING LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.300 (1.364)	HOLLAND RIVER	MUNICIPALITY
GEORGINA TOWNSHIP SUTTON LAGOON	AERATED CELL PLUS LAGOON PHOSPHORUS REMOVAL	.450 (2.046)	BLACK RIVER	MUNICIPALITY
MARKHAM TOWN TUCLOR LANE W P C P (PHASE OUT MAY 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.800 (8.183)	ROUGE RIVER	MUNICIPALITY
MARKHAM TOWN JOHN STREET W P C P (PHASE OUT JUN 81)	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	.750 (3.410)	EAST DON RIVER	MUNICIPALITY
MARKHAM TOWN UNIONVILLE W P C P (PHASE OUT MAY 80)	CONVENTIONAL SECONDARY CONVENTIONAL LAGOON CONTINUOUS PHOSPHORUS REMOVAL	.800 (3.637)	ROUGE RIVER	MUNICIPALITY
NEWMARKET TOWN NEWMARKET WPCP	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.000 (13.638)	HOLLAND RIVER	MUNICIPALITY
RICHMOND HILL TOWN NORTH DON W P C P (PHASE OUT JUN 81)	CONTACT STABILIZATION EFFLUENT POLISHING PHOSPHORUS REMOVAL	1.400 (6.364)	LITTLE DON RIVER	MUNICIPALITY
RICHMOND HILL TOWN PUGSLEY WPCP (PHASE OUT IN 1981)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.600 (7.274)	GERMAN MILLS CREEK	MUNICIPALITY
VAUGHAN TOWN KLEINBERG PLANT	EXTENDED AERATION	.050 (.227)	HUMBER RIVER	MUNICIPALITY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
WHITCHURCH - STOUFFVILLE TOWN	CONVENTIONAL SECONDARY	.550	DUFFIN CREEK	MUNICIPALITY
STOUFFVILLE WPCP(EXP TO .75 M6 PROPOSED)	EFFLUENT POLISHING PHOSPHORUS REMOVAL	(2.500)		
TOTAL CAPACITY		13.850 (62.962)		

CENTRAL REGION

Area Wastewater Treatment Systems

Total Area Wastewater Treatment Systems	Total Capacity
2	346.500 MIDG (1575.260 1000M^3)

AREA WASTEWATER TREATMENT SYSTEMS

SYSTEM: METRO TORONTO POLLUTION CONTROL SYSTEM

Number of Plants: FOUR Number of Municipalities Served: EIGHT

Operated By: METRO TORONTO DEPARTMENT OF WORKS

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
EAST YORK BOROUGH (North Toronto Plant)	Conventional Secondary Phosphorous Removal	10.0 MIGD (45.46 $1000M^3$)	East York Borough North York City Toronto City	Don River
ETOBICOKE BOROUGH (Humber Plant)	Conventional Secondary Phosphorous Removal	62.5 MIGD (284.1 $1000M^3$)	Etobicoke Borough Vaughan Town North York City York Borough	Lake Ontario
SCARBOROUGH BOROUGH	Conventional Secondary Phosphorous Removal	32.0 MIGD (145.5 $1000M^3$)	Scarborough Borough Markham Town	Highland Creek
TORONTO CITY (Main Plant)	Conventional Secondary Phosphorous Removal	180.0 MIGD (818.3 $1000M^3$)	East York Borough North York City Scarborough Borough Toronto City Markham Town	Lake Ontario

SYSTEM: SOUTH PEEL POLLUTION CONTROL SYSTEM

Number of Plants: TWO Number of Municipalities Served: THREE

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
MISSISSAUGA (Clarkson Plant)	Extended Aeration Phosphorous Removal	12.0 MIGD ($54.6\ 1000M^3$)	Mississauga City Brampton City	Lake Ontario
MISSISSAUGA (Lakeview Plant)	Conventional Secondary Phosphorous Removal	50.0 MIGD ($227.3\ 1000M^3$)	Mississauga City Brampton City Etobicoke Borough	Lake Ontario

Southeastern Region

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Ministry of the Environment

Ontario

REGIONAL OFFICE

KINGSTON
133 Dalton St.
613-549-4000

DISTRICT OFFICES

Belleville
15 Victoria Ave.
613-962-9208

Cornwall
4 Montreal Rd.
613-933-7402

Ottawa
2378 Holly Lane
613-521-3450

Pembroke
1000 MacKay St.
P.O. Box 67
613-732-3643

Southeastern Region

Ministry of the Environment
Ontario

4



REGIONAL OFFICE

KINGSTON
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DISTRICT OFFICES

Belleville
15 Victoria Ave.
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Pembroke
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P.O. Box 67
613-732-3643

SOUTHEASTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<----------** CAPACITY MIGD ($1000M^3$)---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	3	13	16	10.850	109.930	120.780 (549.066)
CONVENTIONAL SECONDARY	4	2	6	14.075	8.300	22.375 (101.717)
CONTACT STABILIZATION	1	1	2	.300	1.000	1.300 (5.910)
EXTENDED AERATION	13	1	14	4.913	.423	5.336 (24.257)
HIGH RATE	1	0	1	1.200		1.200 (5.455)
AERATED LAGOON	0	1	1		.608	.608 (2.764)
CONVENTIONAL LAGOON CONTINUOUS	0	1	1		1.300	1.300 (5.910)
CONVENTIONAL LAGOON SEASONAL	18	0	18	5.653		5.653 (25.699)
LAGOON WITH SPRAY	1	0	1	.110		.110 (.500)
AERATED CELL PLUS LAGOON	1	0	1	1.200		1.200 (5.455)
**** TOTALS ****	42	19	61	38.301 (174.116)	121.561 (552.616)	159.862 (726.733)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MGD = 4.546 $1000M^3$

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ALEXANDRIA TOWN ALEXANDRIA LAGOON	AERATED CELL PLUS LAGOON	1.200 (5.455)	DELISLE R	MINISTRY
ALFRED VILLAGE ALFRED LAGOON (ANNUAL DISCHARGE)	CONVENTIONAL LAGOON	.157 (.714)	RUISSEAU DES AZATIKA	MINISTRY
ALMONTE TOWN ALMONTE LAGOON	CONVENTIONAL LAGOON SEASONAL AERATED CELL	1.200 (5.455)	MISSISSIPPI RIVER	MINISTRY
ARNPRIOR TOWN MUNICIPAL PLANT	PRIMARY PHOSPHORUS REMOVAL	1.500 (6.819)	MADAWASKA RIVER	MUNICIPALITY
BANCROFT VILLAGE BANCROFT WPCP	EXTENDED AERATION	.400 (1.818)	YORK RIVER	MINISTRY
BARRY'S BAY VILLAGE BARRY'S BAY WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.273 (1.241)	KAMANISKEG LAKE	MINISTRY
BATH VILLAGE MUNICIPAL PLANT	EXTENDED AERATION	.423 (1.923)	LAKE ONTARIO	MUNICIPALITY
BELLEVILLE CITY BELLEVILLE WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	BAY OF QUINTE	MINISTRY
BROCKVILLE CITY BROCKVILLE WPCP (EXP TO 5.625 MGD IN 80)	PRIMARY PHOSPHORUS REMOVAL	3.750 (17.048)	ST LAWRENCE RIVER	MUNICIPALITY
CARDINAL VILLAGE CANADA STARCH LAGOON	AERATED LAGOON	.608 (2.764)	ST. LAWRENCE RIVER	MUNICIPALITY
CARLETON PLACE TOWN CARLETON PLACE WPCP	HIGH RATE PHOSPHORUS REMOVAL	1.200 (5.455)	MISSISSIPPI RIVER	MINISTRY
CASSELMAN VILLAGE CASSELMAN LAGOON	CONVENTIONAL LAGOON SEASONAL	.300 (1.364)	S. NATION RIVER	MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
CHALK RIVER VILLAGE CHALK RIVER WPCP	EXTENDED AERATION CONTACT STABILIZATION	.080 (.364)	DUCK CR TO DUCK LAKE	MINISTRY
CHESTERVILLE VILLAGE CHESTERVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL	.160 (.727)	SOUTH NATION RIVER	MINISTRY
COBDEN VILLAGE COBDEN W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	.150 (.682)	MUSKRAT RIVER	MINISTRY
CORNWALL CITY CORNWALL WPCP	PRIMARY PHOSPHORUS REMOVAL	8.250 (37.505)	ST. LAWRENCE R.	MINISTRY
CORNWALL TOWNSHIP LONG SAULT PLANT	CONVENTIONAL SECONDARY	.300 (1.364)	ST. LAWRENCE R	MUNICIPALITY
DEEP RIVER TOWN MUNICIPAL PLANT	PRIMARY	.480 (2.182)	OTTAWA RIVER	MUNICIPALITY
DELORO VILLAGE MUNICIPAL PLANT	COMMUNAL SEPTIC TANK	.008 (.036)	MOIRA RIVER	MUNICIPALITY
DESERONTO TOWN DESERONTO W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	.300 (1.364)	BAY OF QUINTE	MINISTRY
EGANVILLE VILLAGE EGANVILLE WPCP	EXTENDED AERATION	.168 (.764)	BONNECHERE RIVER	MINISTRY
ERNESTOWN TOWNSHIP ODESSA WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.200 (.909)	MILLHAVEN CREEK	MINISTRY
ERNESTOWN TOWNSHIP AMHERSTVIEW LAGOON	CONVENTIONAL LAGOON SEASONAL	.526 (2.391)	COLLINS CR. N. CHANNEL	MINISTRY
FRANKFORD VILLAGE FRANKFORD W P C P	CONTACT STABILIZATION PHOSPHORUS REMOVAL	.300 (1.364)	TRENT RIVER	MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
GANANOQUE SEPARATED TOWN GANANOQUE LAGOON (OPER SWITCH IN 80)	CONVENTIONAL LAGOON SEASONAL (NO DISCHARGE IN SUMMER)	.720 (3.273)	STOCKING CR GANANOQUE R	MINISTRY
GOULBOURN TOWNSHIP RICHMOND LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.310 (1.409)	JOCK RIVER	MINISTRY
HAGARTY & RICHARDS TOWNSHIP KILLALOE STN. WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.130 (.591)	BRUDENELL CR.(GOLDEN L.)	MINISTRY
HAWKESBURY TOWN HAWKESBURY WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	2.700 (12.274)	OTTAWA RIVER	MINISTRY
IROQUOIS VILLAGE IRIQUOIS W P C P (EXP TO 1.1 MGD NOV 80)	PRIMARY PHOSPHORUS REMOVAL	.500 (2.273)	ST. LAWRENCE RIVER	MUNICIPALITY
KEMPTVILLE TOWN MUNICIPAL PLANT	PRIMARY PHOSPHORUS REMOVAL	.500 (2.273)	KEMPTVILLE CREEK	MUNICIPALITY
KINGSTON CITY MUNICIPAL PLANT	PRIMARY PHOSPHORUS REMOVAL	13.500 (61.371)	ST LAWRENCE RIVER	MUNICIPALITY
KINGSTON TWP TOWNSHIP KINGSTON TWP WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	2.450 (11.138)	LAKE ONTARIO	MINISTRY
L'ORIGNAL VILLAGE L'ORIGNAL WPCP	EXTENDED AERATION	.190 (.864)	OTTAWA RIVER	MINISTRY
LANCASTER VILLAGE LANCASTER LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.130 (.591)	FINNEY CREEK	MINISTRY
LEEDS & LANSDOWNE TOWNSHIP LANSDOWNE LAGOON (-NO DISCHARGE IN 79)	LAGOON WITH SPRAY	.110 (.500)	LA RUE MILLS CREEK	MINISTRY
MADOC VILLAGE MADOC LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.300 (1.364)	MOIRA RIVER	MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
MARMORA VILLAGE MARMORA W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	.191 (.868)	CROWE RIVER	MINISTRY
MERRICKVILLE VILLAGE MERRICKVILLE WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.110 (.500)	RIDEAU RIVER	MINISTRY
MORRISBURG VILLAGE MUNICIPAL PLANT	PRIMARY CONVENTIONAL LAGOON CONTINUOUS	.500 (2.273)	ST. LAWRENCE RIVER	MUNICIPALITY
NAPANEE TOWN NAPANEE WPCP	PRIMARY PHOSPHORUS REMOVAL	2.000 (9.092)	NAPANEE RIVER	MUNICIPALITY
NEPEAN CITY WATTS CREEK PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	WATTS CREEK	MUNICIPALITY
OSNABRUCK TOWNSHIP INGLESIDE PLANT	PRIMARY	.300 (1.364)	ST. LAWRENCE RIVER	MUNICIPALITY
OTTAWA CITY GREEN CREEK PLANT	PRIMARY PHOSPHORUS REMOVAL	80.000 (363.680)	OTTAWA RIVER	MUNICIPALITY
PEMBROKE CITY PEMBROKE W P C P	PRIMARY	2.500 (11.365)	OTTAWA RIVER	MUNICIPALITY
PERTH TOWN PERTH LAGOON	CONVENTIONAL LAGOON CONTINUOUS (PHOSPHORUS REMOVAL SEP 1980)	1.300 (5.910)	TAY RIVER	MUNICIPALITY
PETAWAWA VILLAGE PETAWAWA W P C P (DEPT NAT DEF)	PRIMARY PHOSPHORUS REMOVAL	1.600 (7.274)	OTTAWA RIVER	MINISTRY
PICTON TOWN PICTON W P C P	CONTACT STABILIZATION PHOSPHORUS REMOVAL	1.000 (4.546)	PICTON BAY	MUNICIPALITY
PITTSBURGH TOWNSHIP CANA SUBDIVISION PLANT	EXTENDED AERATION	.021 (.095)	CATARAQUI RIVER	MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
PLANTAGENET VILLAGE PLANTAGENET LAGOON	CONVENTIONAL LAGOON SEASONAL	.158 (.718)	SOUTH NATION RIVER	MINISTRY
PRESCOTT SEPARATED TOWN PRESCOTT WPCP	PRIMARY PHOSPHORUS REMOVAL	1.000 (4.546)	ST. LAWRENCE RIVER	MINISTRY
RENFREW TOWN MUNICIPAL PLANT	PRIMARY PHOSPHORUS REMOVAL	1.900 (8.637)	BONNECHERE RIVER	MUNICIPALITY
ROCKLAND TOWN ROCKLAND LAGOON	CONVENTIONAL LAGOON SEASONAL	.200 (.909)	OTTAWA RIVER	MINISTRY
RUSSELL TOWNSHIP RUSSELL P V LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.360 (1.637)	CASTOR RIVER	MINISTRY
SIDNEY TWP TOWNSHIP BATAWA WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.125 (.568)	TRENT RIVER	MINISTRY
SMITHS FALLS SEPARATED TOWN MUNICIPAL PLANT	PRIMARY PHOSPHORUS REMOVAL	2.500 (11.365)	RIDEAU RIVER	MUNICIPALITY
ST. ISIDORE DE PRESCOTT VILLAGE ST ISIDORE LAGOON	CONVENTIONAL LAGOON SEASONAL	.144 (.655)	SCOTCH RIVER	MINISTRY
STIRLING VILLAGE STIRLING LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.250 (1.137)	RAWDON CREEK	MINISTRY
TRENTON TOWN TRENTON WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.500 (15.911)	BAY OF QUINTE	MINISTRY
TWEED VILLAGE TWEED LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.266 (1.209)	MOIRA RIVER	MINISTRY
VANKLEEK HILL TOWN VANKLEEK HILL LAGOON	CONVENTIONAL LAGOON SEASONAL	.200 (.909)	LITTLE RIDEAU CREEK	MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
WESTPORT VILLAGE WESTPORT LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.072 (.327)	UPPER RIDEAU LAKE	MINISTRY
WINCHESTER VILLAGE WINCHESTER LAGOON	CONVENTIONAL LAGOON SEASONAL	.200 (.909)	CASTOR RIVER	MINISTRY

SOUTHEASTERN REGION

Regional Municipalities

Regional Municipalities	Total Capacity
OTTAWA CARLETON	(WASTEWATER TREATMENT) 88.310 MIGD (401.457 1000M^3)

REGIONAL MUNICIPALITY OF OTTAWA-CARLETON

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
GOULBOURN TOWNSHIP RICHMOND LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.310 (1.409)	JOCK RIVER	MINISTRY
NEPEAN CITY WATTS CREEK PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	WATTS CREEK	MUNICIPALITY
OTTAWA CITY GREEN CREEK PLANT	PRIMARY PHOSPHORUS REMOVAL	80.000 (363.680)	OTTAWA RIVER	MUNICIPALITY
TOTAL CAPACITY		88.310 (401.457)		

SOUTHEASTERN REGION

Area Wastewater Treatment Systems

Total Area Wastewater Treatment Systems

1

Total Capacity

88.000 MIGD

(400.080 1000M^3)

AREA WASTEWATER TREATMENT SYSTEMS

SYSTEM: OTTAWA-CARLETON POLLUTION CONTROL SYSTEM

Number of Plants: TWO Number of Municipalities Served: SEVEN

Operated By: REGIONAL MUNICIPALITY OF OTTAWA-CARLTON

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
NEPEAN TWP. (Watts Creek Plant)	Conventional Secondary Phosphorus Removal	8.0 MIGD ($36.4\ 1000M^3$)	Goulbourn Twp. Nepean Twp. Ottawa City	Watts Creek
OTTAWA CITY (Green Creek Plant)	Primary Phosphorus Removal	80.0 MIGD ($363.68\ 1000M^3$)	Cumberland Twp. Gloucester Nepean Twp. Ottawa City Rockcliff Park Vanier City.	Ottawa River

Northeastern Region

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Ministry of the Environment

Ontario

REGIONAL OFFICE

SUDBURY
199 Larch St.
705-675-4501

DISTRICT OFFICES

North Bay
1500 Fisher St.
705-476-1001

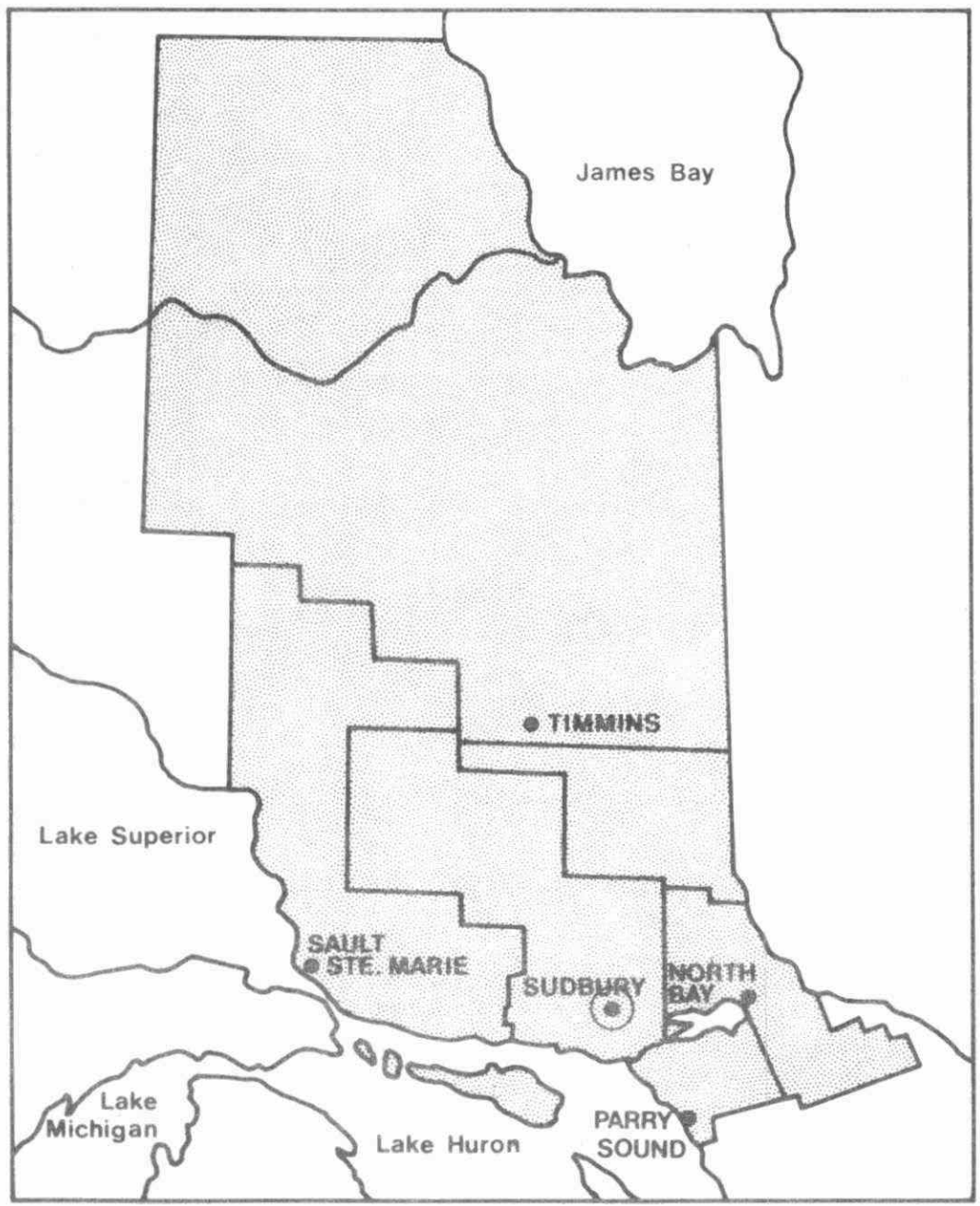
Sault Ste. Marie
445 Albert St. E.
705-949-4640

Timmins
83 Algonquin Blvd. W.
705-264-9474

Parry Sound
74 Church St.
705-746-2139

Northeastern Region

Ministry of the Environment
Ontario



REGIONAL OFFICE

SUDBURY
199 Larch St.
705-675-4501

DISTRICT OFFICES

North Bay
1500 Fisher St.
705-476-1001

Sault Ste. Marie
445 Albert St. E.
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83 Algonquin Blvd. W.
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Parry Sound
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705-746-2139

NORTHEASTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<----------** CAPACITY MIGD ($1000M^3$)---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	3	4	7	13.490	9.030	22.520 (102.376)
CONVENTIONAL SECONDARY	3	3	6	11.500	2.131	13.631 (61.967)
CONTACT STABILIZATION	4	0	4	4.362	.000	4.362 (19.830)
EXTENDED AERATION	10	4	14	3.077	2.020	5.097 (23.171)
TRICKLING FILTER	0	1	1		.100	.100 (.455)
HIGH RATE	1	0	1	11.250		11.250 (51.143)
CONVENTIONAL LAGOON CONTINUOUS	9	3	12	1.170	.694	1.864 (8.474)
CONVENTIONAL LAGOON SEASONAL	14	4	18	2.057	1.480	3.537 (16.079)
OXIDATION DITCH	1	0	1	.350		.350 (1.591)
**** TOTALS ****	45	19	64	47.256 (214.826)	15.455 (70.258)	62.711 (285.084)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MGD = 4.546 $1000M^3$

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ARMSTRONG TOWNSHIP EARLTON LAGOON	CONVENTIONAL LAGOON SEASONAL	.080 (.364)	EVANTUREL CREEK	MUNICIPALITY
ASSIGINACK TOWNSHIP MANITOWANING LAGOON	CONVENTIONAL LAGOON SEASONAL	.120 (.546)	LAKE HURON	MINISTRY
BLACK RIVER - MATHESON TOWNSHIP VAL GAGNE LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.023 (.105)	BLACK RIVER	MINISTRY
BLACK RIVER - MATHESON TOWNSHIP HOLTYRE PLANT	COMMUNAL SEPTIC TANK	.055 (.250)	BLACK RIVER	MUNICIPALITY
BLACK RIVER - MATHESON R TOWNSHIP RAMORE LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.027 (.123)	BLACK RIVER	MINISTRY
BLACK RIVER MATHESON TOWNSHIP MATHESON WPCP	EXTENDED AERATION	.150 (.682)	BLACK RIVER	MINISTRY
BLIND RIVER TOWN BLIND RIVER W P C P	EXTENDED AERATION	.770 (3.500)	LAKE HURON	MINISTRY
BRUCE MINES TOWN BRUCE MINES LAGOON	CONVENTIONAL LAGOON SEASONAL	.070 (.318)	L.HURON(ST.JOSEPH CHNL.)	MINISTRY
BURKS FALLS VILLAGE BURKS FALLS LAGOON	CONVENTIONAL LAGOON SEASONAL	.190 (.864)	MAGNETAWAN RIVER	MINISTRY
CALDWELL TOWNSHIP VERNER LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.140 (.636)	VEUVE RIVER	MINISTRY
CAPREOL TOWN CAPREOL LAGOON	CONVENTIONAL LAGOON SEASONAL	.340 (1.548)	VERMILION RIVER	MUNICIPALITY
CHAPLEAU TOWNSHIP CHAPLEAU W P C P	PRIMARY	.400 (1.818)	CHAPLEAU LAKE	MUNICIPALITY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
COCHRANE TOWN MUNICIPAL PLANT	EXTENDED AERATION EFFLUENT POLISHING	.600 (2.728)	LILLABELLE LAKE	MUNICIPALITY
COSBY,MASON & MARTLAND TOWNSHIP NOELVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.260 (1.182)	WOLF RIVER	MINISTRY
ELLIOT LAKE TOWN PLANT ONE	CONVENTIONAL SECONDARY	.487 (2.214)	HORNE LAKE	MUNICIPALITY
ELLIOT LAKE TOWN PLANT TWO	PRIMARY	1.000 (4.546)	ANGEL LAKE	MUNICIPALITY
ENGLEHART TOWN ENGLEHART LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.200 (.909)	ENGLEHART RIVER	MINISTRY
ESPANOLA TOWN ESPANOLA WPCP	PRIMARY	.660 (3.000)	SPANISH RIVER	MINISTRY
FAUQUIER TOWNSHIP MOONBEAM LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.060 (.273)	CREEK SYS TO GROUNDHOG R	MINISTRY
HAILEBURY TOWN NORTH COBALT LAGOON	CONVENTIONAL LAGOON SEASONAL	.100 (.455)	FARR CREEK	MINISTRY
HAILEYBURY TOWN HAILEYBURY WPCP	CONTACT STABILIZATION	.350 (1.591)	LAKE TAMISKAMING	MINISTRY
HEARST TOWN HEARST LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.500 (2.273)	MATTAWISHKWIA RIVER	MINISTRY
IROQUOIS FALLS TOWN IROQUOIS FALLS WPCP	CONTACT STABILIZATION	.900 (4.091)	ABITIBI RIVER	MINISTRY
JACK & NOBLE TOWNSHIP GOGAMA W P C P*(ONT GOV'T SERVICES)	EXTENDED AERATION	.012 (.055)	MINISINAKWA LAKE	*MINISTRY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
KAPUSKASING TOWN (ALBERT LAGOONS & BRUNETVILLE LAGOONS)	COMMUNAL SEPTIC TANK CONVENTIONAL LAGOON CONTINUOUS	.400 (1.818)	GLOUGH CREEK	MUNICIPALITY
KIRKLAND LAKE TOWN MUNICIPAL PLANT	CONTACT STABILIZATION	3.000 (13.638)	MURDOCK CREEK	MINISTRY
KIRKLAND LAKE TOWN SWASTIKA	COMMUNAL SEPTIC TANK	.065 (.295)	BLANCHE RIVER	MUNICIPALITY
KIRKLAND LAKE TOWN CHAPUT HUGHES	COMMUNAL SEPTIC TANK	.050 (.227)	AMIKOUGAMI CREEK	MUNICIPALITY
LARDER LAKE TOWNSHIP LARDER LAKE TOWNSITE PLANT	PRIMARY	.130 (.591)	LARDER LAKE	MUNICIPALITY
LATCHFORD TOWN LATCHFORD WPCP	EXTENDED AERATION	.075 (.341)	MONTREAL RIVER	MINISTRY
LITTLE CURRENT TOWN LITTLE CURRENT LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.100 (.455)	DITCH TO GEORGIAN BAY	MINISTRY
MATTAWA TOWN MATTAWA (EXFILTRATION LAGOON)	CONVENTIONAL LAGOON CONTINUOUS (EXFILTRATION)	.180 (.818)	MATTAWA RIVER	MINISTRY
MCDOUGALL TOWNSHIP NOBEL PLANT	COMMUNAL SEPTIC TANK	.040 (.182)	GUNCOTTON CREEK	MUNICIPALITY
MCGARRY TOWNSHIP VIRGINIATOWN AND KEARNS PLANT	COMMUNAL SEPTIC TANK	.160 (.727)	TAILINGS PD TO LARDER L.	MUNICIPALITY
MICHIPICOTEN TOWNSHIP WAWA LAGOON	CONVENTIONAL LAGOON SEASONAL	.400 (1.818)	MAGPIE RIVER	MINISTRY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSE FACTORY W P C P (ENV CAN)(ISLAND)	EXTENDED AERATION	.055 (.250)	MOOSE RIVER	(FEDRAL GOV'T)

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSONEE W P C P (OLD TOWNSITE)	CONTACT STABILIZATION	.112 (.509)	STORE CK TO MOOSE RIVER	MINISTRY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSONEE NORTH W P C P	EXTENDED AERATION	.055 (.250)	BUTLER CK TO MOOSE RIVER	MINISTRY
NEW LISKEARD TOWN NEW LISKEARD LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.637 (2.896)	WABI RIVER	MUNICIPALITY
NICKEL CENTRE TOWN CONISTON W P C P	OXIDATION DITCH CONVENTIONAL SECONDARY	.350 (1.591)	CONISTON CREEK	MINISTRY
NICKEL CENTRE TOWN FALCONBRIDGE TOWNSITE W P C P	TRICKLING FILTER	.100 (.455)	BOUCHER LAKE	MUNICIPALITY
NICKEL CENTRE TOWN GARSON LAGOON	CONVENTIONAL LAGOON SEASONAL	.760 (3.455)	JUNCTION CREEK	MUNICIPALITY
NORTH BAY CITY NORTH BAY WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	LAKE NIPISSING	MINISTRY
NORTH HIMSWORTH TOWNSHIP CALLANDER LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.105 (.477)	DITCH TO CALLANDER BAY	MINISTRY
ONAPING FALLS TOWN LEVACK PLANT	EXTENDED AERATION	.320 (1.455)	ONAPING RIVER	MUNICIPALITY
ONAPING FALLS TOWN ONAPING PLANT	CONVENTIONAL SECONDARY	.144 (.655)	SWAMP	MUNICIPALITY
OWENS,WILLIAMSON-IDING'T TOWNSHIP VAL-RITA LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.155 (.705)	CREEK TO KAPUSKASING R.	MINISTRY
PARRY SOUND TOWN PARRY SOUND WPCP	PRIMARY PHOSPHORUS REMOVAL	.830 (3.773)	MC CURRY LAKE	MINISTRY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
PINARD TOWNSHIP FRASERDALE LAGOON (ONT. HYDRO)	CONVENTIONAL LAGOON CONTINUOUS	.010 (.045)	ABITIBI RIVER	(ONT. HYDRO)
POWASSAN TOWN POWASSAN LAGOON	CONVENTIONAL LAGOON CONTINUOUS PHOSPHORUS REMOVAL	.070 (.318)	GENESEE CREEK	MINISTRY
RATTER & DUNNETT TOWNSHIP WARREN LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.133 (.605)	VEUVE RIVER	MINISTRY
RAYSIDE BALFOUR TOWN CHELMSFORD W P C P (PLANT ONE)	EXTENDED AERATION CONTACT STABILIZATION	.675 (3.069)	WHITSON CREEK	MINISTRY
RAYSIDE-BALFOUR TOWN AZILDA W P C P	EXTENDED AERATION	.625 (2.841)	WHITEWATER LAKE	MINISTRY
RAYSIDE-BALFOUR TOWN CHELMSFORD LAGOON (PLANT ONE)	CONVENTIONAL LAGOON SEASONAL	.300 (1.364)	MCKENZIE CREEK	MUNICIPALITY
SAULT STE MARIE CITY SAULT STE.MARIE WPCP	PRIMARY	12.000 (54.552)	ST. MARY'S RIVER	MINISTRY
SHACKLETON AND MACHIN TOWNSHIP FAUQUIER LAGOON	CONVENTIONAL LAGOON SEASONAL	.080 (.364)	TO GROUNDHOG RIVER	MINISTRY
SMOOTH ROCK FALLS TOWN SMOOTH ROCK FALLS WPCP	EXTENDED AERATION	.360 (1.637)	MATTAGAMI RIVER	MINISTRY
STURGEON FALLS TOWN STURGEON FALLS WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.548)	STURGEON RIVER	MINISTRY
SUDBURY CITY SUDBURY WPCP	HIGH RATE	11.250 (51.143)	JUNCTION CREEK	MINISTRY
SUDBURY CITY COPPER CLIFF PLANT	CONVENTIONAL SECONDARY	1.500 (6.819)	JUNCTION CREEK	MUNICIPALITY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
SUNDRIDGE VILLAGE SUNRIDGE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.144 (.655)	BERNARD CREEK	MINISTRY
TEMAGAMI TOWNSHIP TEMAGAMI LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.060 (.273)	SNAKE ISLAND LAKE	MINISTRY
TEMAGAMI TOWNSHIP TEMAGAMI NORTH-GOWARD LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.040 (.182)	NET LAKE	MUNICIPALITY
TIMMINS CITY WHITNEY & TISDALE (- OPER TO MUN IN 79)	EXTENDED AERATION	.750 (3.410)	PORCUPINE RIVER	MUNICIPALITY
TIMMINS CITY BOB'S LAKE LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.017 (.077)	BOB'S CK TO PORCUPINE L.	MUNICIPALITY
TIMMINS CITY MATTAGAMI W P C P (- OPER TO MUN IN 79)	PRIMARY	7.500 (34.095)	MATTAGAMI RIVER	MUNICIPALITY
VALLEY EAST TOWN HAMNER, VAL CARON, VAL THERESE	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	2.500 (11.365)	VERMILION RIVER	MINISTRY
WALDEN TOWN LIVELY PLANT	EXTENDED AERATION	.350 (1.591)	MEATBIRD CREEK	MUNICIPALITY
WEBBWOOD TOWN WEBBWOOD LAGOON	CONVENTIONAL LAGOON SEASONAL	.100 (.455)	GOUGH CREEK	MINISTRY
WICKSTEED TOWNSHIP HORNEPAYNE WPCP	EXTENDED AERATION	.300 (1.364)	JACKFISH RIVER	MINISTRY

NORTHEASTERN REGION

Regional Municipalities

Regional Municipalities	Total Capacity
SUDBURY	(WASTEWATER TREATMENT) 19.474 MIGD (88.529 1000 M^3)

REGIONAL MUNICIPALITY OF SUDBURY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
CAPREOL TOWN CAPREOL LAGOON	CONVENTIONAL LAGOON SEASONAL	.340 (1.546)	VERMILION RIVER	MUNICIPALITY
COSBY,MASON & MARTLAND TOWNSHIP NOELVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.260 (1.182)	WOLF RIVER	MINISTRY
NICKEL CENTRE TOWN CONISTON W P C P	OXIDATION DITCH CONVENTIONAL SECONDARY	.350 (1.591)	CONISTON CREEK	MINISTRY
NICKEL CENTRE TOWN GARSON LAGOON	CONVENTIONAL LAGOON SEASONAL	.760 (3.455)	JUNCTION CREEK	MUNICIPALITY
NICKEL CENTRE TOWN FALCONBRIDGE TOWNSITE W P C P	TRICKLING FILTER	.100 (.455)	BOUCHER LAKE	MUNICIPALITY
ONAPING FALLS TOWN ONAPING PLANT	CONVENTIONAL SECONDARY	.144 (.655)	SWAMP	MUNICIPALITY
ONAPING FALLS TOWN LEVACK PLANT	EXTENDED AERATION	.320 (1.455)	ONAPING RIVER	MUNICIPALITY
RAYSIDE BALFOUR TOWN CHELMSFORD W P C P (PLANT ONE)	EXTENDED AERATION CONTACT STABILIZATION	.675 (3.069)	WHITSON CREEK	MINISTRY
RAYSIDE-BALFOUR TOWN AZILDA W P C P	EXTENDED AERATION	.625 (2.841)	WHITEWATER LAKE	MINISTRY
RAYSIDE-BALFOUR TOWN CHELMSFORD LAGOON (PLANT ONE)	CONVENTIONAL LAGOON SEASONAL	.300 (1.364)	MCKENZIE CREEK	MUNICIPALITY
SUDBURY CITY SUDBURY WPCP	HIGH RATE	11.250 (51.143)	JUNCTION CREEK	MINISTRY

REGIONAL MUNICIPALITY OF SUDBURY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
SUDBURY CITY COPPER CLIFF PLANT	CONVENTIONAL SECONDARY	1.500 (6.819)	JUNCTION CREEK	MUNICIPALITY
VALLEY EAST TOWN HAMNER, VAL CARON, VAL THERESE	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	2.500 (11.365)	VERMILION RIVER	MINISTRY
WALDEN TOWN LIVELY PLANT	EXTENDED AERATION	.350 (1.591)	MEATBIRD CREEK	MUNICIPALITY
TOTAL CAPACITY		19.474 (88.529)		

Northwestern Region
6

Ministry of the Environment
Ontario

REGIONAL OFFICE
THUNDER BAY
435 James St. S.
P.O. Box 5000
807-475-1205

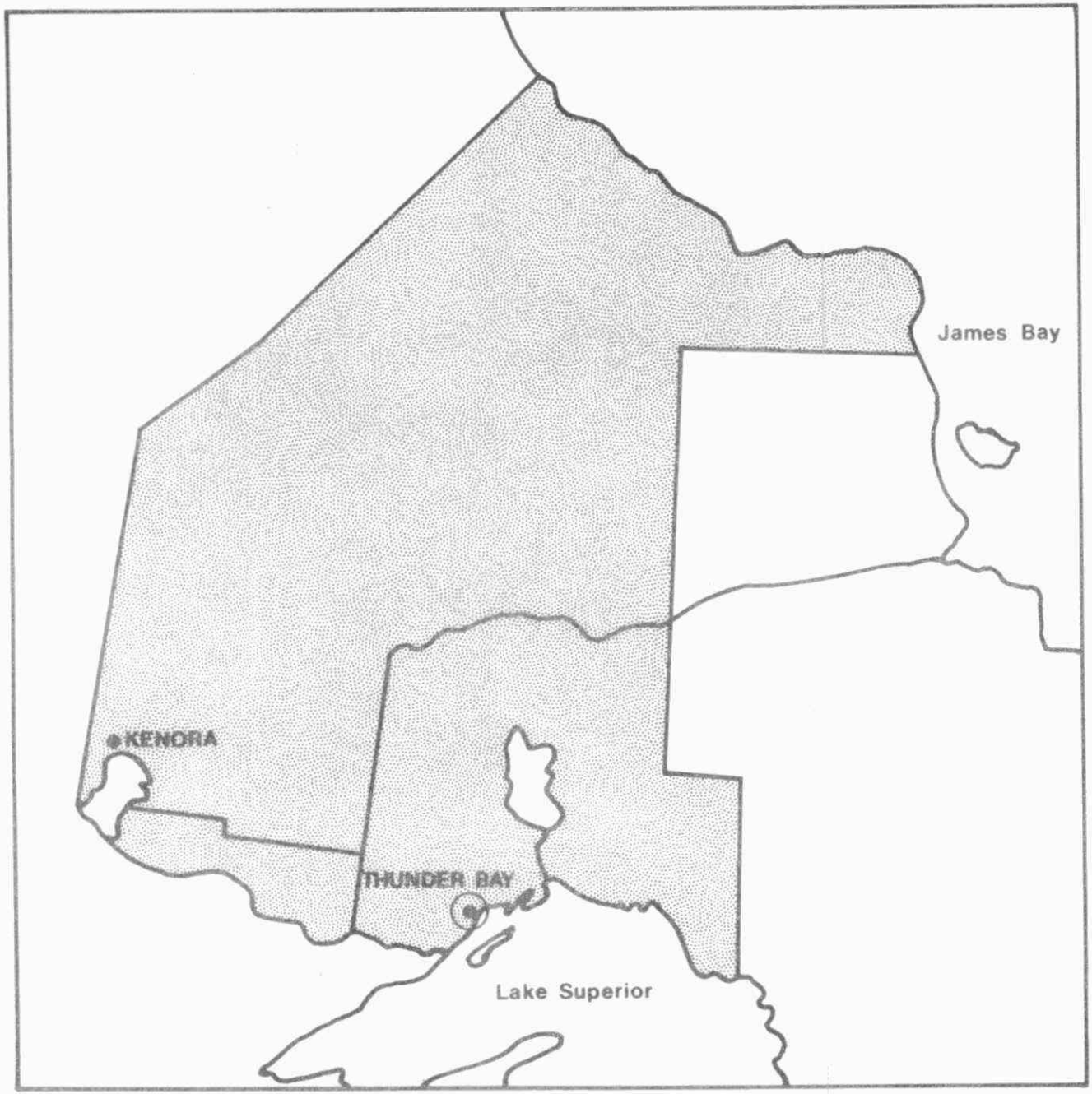
DISTRICT OFFICE
Kenora
808 Robertson St.
807-468-5578

Northwestern Region

6

Ministry of the Environment

Ontario



REGIONAL OFFICE
THUNDER BAY
435 James St. S.
P.O. Box 5000
807-475-1205

DISTRICT OFFICE
Kenora
808 Robertson St.
807-468-5578

NORTHWESTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<----------** CAPACITY MIGD ($1000M^3$)---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	1	4	5	2.000	24.780	26.780 (121.742)
CONVENTIONAL SECONDARY	0	1	1		.500	.500 (2.273)
CONTACT STABILIZATION	2	2	4	.790	6.500	7.290 (33.140)
EXTENDED AERATION	5	0	5	1.800		1.800 (8.183)
CONVENTIONAL LAGOON CONTINUOUS	1	1	2	.110	.300	.410 (1.864)
CONVENTIONAL LAGOON SEASONAL	2	0	2	.390		.390 (1.773)
**** TOTALS ****	11	8	19	5.090 (23.139)	32.080 (145.836)	37.170 (168.975)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MGD = 4.546 $1000M^3$

NORTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ATIKOKAN TOWNSHIP MUNICIPAL PLANT	COMMUNAL SEPTIC TANK	.400 (1.818)	ATIKOKAN RIVER	MUNICIPALITY
ATWOOD TOWNSHIP RAINY RIVER LAGOON	CONVENTIONAL LAGOON SEASONAL	.190 (.864)	RAINY RIVER	MINISTRY
BAIRD TOWNSHIP MADSEN COMMUNITY	COMMUNAL SEPTIC TANK	.060 (.273)	RED LAKE	MINISTRY
BALMERTOWN IMPROVEMENT DISTRICT BALMERTOWN TOWNSITE PLANT	COMMUNAL SEPTIC TANK	.100 (.455)	BALMER CREEK	MUNICIPALITY
BALMERTOWN IMPROVEMENT DISTRICT COCHENOUR TOWNSITE PLANT	COMMUNAL SEPTIC TANK	.030 (.136)	RED LAKE	MUNICIPALITY
BEARDMORE TOWNSHIP BEARDMORE *(EXFILTRATION LAGOON)	CONVENTIONAL LAGOON CONTINUOUS	.110 (.500)	*(BLACKWATER RIVER)	MINISTRY
DRYDEN TOWN DRYDEN W P C P	CONTACT STABILIZATION	1.500 (6.819)	WABIGOON RIVER	MUNICIPALITY
EAR FALLS TOWNSHIP EAR FALLS W P C P	EXTENDED AERATION CONTACT STABILIZATION	.400 (1.818)	ENGLISH RIVER	MINISTRY
EMO TOWNSHIP EMO LAGOON	CONVENTIONAL LAGOON SEASONAL	.200 (.909)	RAINY RIVER	MINISTRY
FORT FRANCES TOWN FORT FRANCES WPCP	PRIMARY	2.000 (9.092)	RAINY RIVER	MINISTRY
GERALDTON TOWN GERALDTON W P C P	EXTENDED AERATION CONTACT STABILIZATION	.400 (1.818)	LAKE KENOGAMISIS	MINISTRY
IGNACE TOWNSHIP IGNACE W P C P	EXTENDED AERATION CONTACT STABILIZATION PHOSPHORUS REMOVAL	.550 (2.500)	AGIMAC CREEK	MINISTRY

NORTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
KENORA TOWN KENORA WPCP	CONTACT STABILIZATION	5.000 (22.730)	WINNIPEG RIVER	MUNICIPALITY
LONGLAC TOWNSHIP LONGLAC W P C P	CONTACT STABILIZATION EXTENDED AERATION	.540 (2.455)	SUICIDE RIVER	MINISTRY
MANITOUWADGE TOWNSHIP MUNICIPAL PLANT	COMMUNAL SEPTIC TANK	.400 (1.818)	RUDDER LAKE	MUNICIPALITY
MARATHON TOWNSHIP MUNICIPAL PLANT	PRIMARY	.140 (.636)	LAKE SUPERIOR	MUNICIPALITY
NAKINA IMPROVEMENT DISTRICT MUNICIPAL PLANT	COMMUNAL SEPTIC TANK	.060 (.273)	HOWARD CREEK	MINISTRY
NIPIGON TOWNSHIP MUNICIPAL PLANT	PRIMARY	.360 (1.637)	NIPIGON RIVER	MUNICIPALITY
PICKLE LAKE IMPROVEMENT DISTRICT PICKLE LAKE WPCP	EXTENDED AERATION	.200 (.909)	KAWINOGANS RIVER	MINISTRY
RED LAKE TOWNSHIP RED LAKE W P C P	CONTACT STABILIZATION EXTENDED AERATION	.250 (1.137)	HOWEY BAY	MINISTRY
RED ROCK IMPROVEMENT DISTRICT RED ROCK W P C P(NEW PLANT IN 78)	PRIMARY	.280 (1.273)	NIPIGON BAY	MUNICIPALITY
SCHREIBER TOWNSHIP SCHREIBER W P C P	EXTENDED AERATION	.250 (1.137)	CREEK TO L.SUPERIOR	MINISTRY
SIOUX LOOKOUT TOWN MUNICIPAL PLANT	CONVENTIONAL SECONDARY	.500 (2.273)	PELICAN LAKE	MUNICIPALITY
TERRACE BAY TOWNSHIP TERRACE BAY LAGOON-*(NO DISCHARGE IN 79)	CONVENTIONAL LAGOON (CONTINUOUS)	.300 (1.364)	*(EXFILTRATE TO SUPERIOR	MUNICIPALITY

NORTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
THUNDER BAY CITY THUNDER BAY SOUTH WARD W P C P	PRIMARY	24.000 (109.104)	KAMINISTIKWIA RIVER	MUNICIPALITY

PART -- II

WATER

1979

PART II -- WATER TREATMENT

Water, in terms of quality and quantity varies widely throughout the Province and as may be expected, the quality and intended use of the supply dictates the degree and type of treatment necessary.

Groundwater is characteristically cool, generally requires little treatment and suffers only slight temperature variations, hence, it is often the first to be investigated as a source of supply. While hardness is often a concern with groundwater the main problem is its extraction in sufficient quantity to meet our increasing growth patterns. Quantity is not usually a problem with surface sources but treatment becomes the rule rather than the exception. The removal of turbidity, colour, tastes, odours, chemical substances and micro-organisms that would constitute a health hazard is achieved through various treatment methods. Sometimes only a few of these undesirable characteristics are present in a water supply; consequently, the method of treatment is selected only after the results of careful physical, bacteriological and chemical analyses are known.

All surface sources of supply are disinfected by chlorination to kill pathogenic bacteria (disease organisms). Groundwater is chlorinated where disease organisms are present or where a potential danger of contamination exists.

The object of treatment is to use the most effective processes and equipment to remove the impurities found in a particular source, for this reason all or any of the following methods or items may be employed in a plant.

Screening (Physical Treatment)

The raw or untreated water passes through coarse and fine screens which removes the larger particles.

Algae Removal by Microstraining (Physical Treatment)

If algae is a problem in the raw water then it may be passed through a microstrainer which is a rotating drum covered with a finely woven blanket of stainless steel or cloth fabric. The blanket opening size is chosen based on the type of algae encountered and as the water passes through the microstrainer, the algae are enmeshed on the blanket. Some units are equipped with an ultra-violet light attachment which acts as a germicidal agent on the water and reduces or controls the growths on the fabric. The microstrainer is backwashed or flushed with water to remove the accumulated algae and clean the blanket.

Color, Turbidity and Bacteria Removal by Coagulation and Flocculation

Chemical coagulants such as alum or lime are added and thoroughly mixed with the water. After a short period a sticky gelatinous precipitate is formed which absorbs colour and entangles mud, bacteria and suspended matter. The gelatinous mass is agitated and builds up into clumps or flocs which grow large and finally become heavy enough with impurities to be

removed from the water by settling. The water is reasonably clear after this procedure and the settled material is removed for suitable disposal.

Turbidity and Bacteria Removal by Filtration (Physical Treatment)

After coagulation and flocculation the water is passed through a filter or if water quality permits, the raw water may be ready for filtration after screening and/or microstraining.

The gravity filter and the pressure filter are the two main types employed to remove minute impurities from the water. The gravity filter is an open rectangular tank, equipped with a straining system, (media) which generally consists of graded sand and gravel or possibly anthracite (a type of hard coal) and an underdrain system where the filtered water is collected. As the water passes through the filter the impurities are transferred or trapped in the media. Cleaning is effected by reversing the flow in the filter (backwashing). The pressure filter employs the same principles, the difference being that the water is forced under pressure through the media in a closed vessel.

Disinfection by Chlorination

Before the water is delivered to the consumer or storage facility it is essential that pathogenic bacteria or disease producing organisms are killed. Chlorination achieves this end provided that the turbidity is at a sufficiently low level and adequate contact is provided.

PROVINCIAL SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD ($1000M^3$) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	17	132	149	5.382	161.996	167.378 (760.900)
GROUND SOURCE PHYSCL TRTMT	2	18	20	.185	22.690	22.875 (103.990)
GROUND SOURCE CHEM TRTMT	8	30	38	6.624	57.779	64.403 (292.776)
GROUND SOURCE PHYSC & CHEM TRTMN	2	7	9	.076	16.013	16.089 (73.141)
SURFC SOURCE	14	57	71	7.131	180.873	188.004 (854.666)
SURFC PHYSCL TREATMENT	4	13	17	22.345	30.013	52.358 (238.019)
SURFC SOURCE CHEM TREATMENT	2	2	4	3.144	5.160	8.304 (37.750)
SURFC SOURCE PHYSC & CHEM TRTMT	40	78	118	271.998	1,181.105	1,453.103 (6,605.806)
TOTALS	89	337	426	316.885 (1,440.559)	1,655.629 (7,526.489)	1,972.514 (8,967.049)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY

$1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:

1 MGD = 4.546 $1000M^3$

Southwestern Region

1

Ontario

Ministry of the Environment

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SOUTHWESTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD ($1000M^3$) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	3	38	41	.792	32.766	33.558 (152.555)
GROUND SOURCE PHYSCL TRTMT	0	4	4		6.800	6.800 (30.913)
GROUND SOURCE CHEM TRTMT	2	8	10	.668	5.565	6.233 (28.335)
GROUND SOURCE PHYS & CHEM TRTMT	1	3	4	.056	10.588	10.644 (48.388)
SURFC SOURCE	0	3	3		2.869	2.869 (13.042)
SURFC SOURCE PHYSCL TREATMT	1	1	2	.840	2.160	3.000 (13.638)
SURFC SOURCE CHEM TRTMT	1	1	2	.684	3.000	3.684 (16.747)
SURFC SOURCE PHYS & CHEM TRTMT	11	13	24	117.366	90.342	207.708 (944.241)
**** TOTALS ****	19	71	90	120.406 (547.366)	154.090 (700.493)	274.496 (1,247.859)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:
1 MGD = 4.546 $1000M^3$

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
AILSA CRAIG VILLAGE MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY)		(LAKE HURON WSS)	MINISTRY
ALVINSTON VILLAGE ALVINSTON PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.166 (.755)	SYDENHAM RIVER	MINISTRY
AMHERSTBURG TOWN AMHERSTBURG AREA WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	4.000 (18.184)	DETROIT RIVER	MINISTRY
ANDERDON TOWNSHIP ANDERDON SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(AMHERSTBURG AREA WSS)	MINISTRY
ARKONA VILLAGE ARKONA SUPPLY	GROUND SOURCE CHLORINATION	.144 (.655)		MINISTRY
AYLMER TOWN MUNICIPAL PLANT	GROUND SOURCE CHEM TRTMT CHLORINATION	1.296 (5.892)		MUNICIPALITY
BAYHAM TOWNSHIP BAYHAM SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(ELGIN AREA W S S)	MINISTRY
BELLE RIVER TOWN BELLE RIVER WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	4.000 (18.184)	LAKE ST CLAIR	MUNICIPALITY
BELMONT VILLAGE BELMONT WELL SUPPLY	GROUND SOURCE	.318 (1.446)		MUNICIPALITY
BIDDULPH TOWNSHIP GRANTON POLICE VILLAGE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.168 (.764)		MINISTRY
BLENHEIM TOWN BLENHEIM AREA WATER SUPPLY	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	1.000 (4.546)	LAKE ERIE	MINISTRY
BLYTH VILLAGE MUNICIPAL PLANT	GROUND SOURCE	.180 (.818)		MUNICIPALITY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
BOSANQUET TOWNSHIP BOSANQUET SUPPLY	(WATER IS SUPPLIED BY)	(	(LAKE HURON W S S)	MINISTRY
BRUSSELS VILLAGE MUNICIPAL PLANT	GROUND SOURCE	.479 (2.178)		MUNICIPALITY
CARADOC - EKFRID TOWNSHIP MELBOURNE HAMLET SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.056 (.255)		MINISTRY
CHATHAM CITY KENT COUNTY WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	10.000 (45.460)	LAKE ERIE	MUNICIPALITY
CHESLEY TOWN CHESLEY WELL SUPPLY	GROUND SOURCE	.828 (3.764)		MUNICIPALITY
CLINTON TOWN CLINTON SUPPLY	GROUND SOURCE	1.440 (6.546)		MUNICIPALITY
COLCHESTER NORTH TOWNSHIP MC GREGOR HAMLET SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(AMHERSTBURG AREA W S S)	MINISTRY
COLCHESTER SOUTH TOWNSHIP COLCHESTER HAMLET SUPPLY	(WATER IS SUPPLIED BY)	(	(HARROW-COLCHESTER S.WSS	MINISTRY
DOVER TOWNSHIP MITCHELL'S BAY PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.250 (1.137)	LAKE ST CLAIR	MINISTRY
DOVER TOWNSHIP PAINCOURT SUPPLY	GROUND SOURCE CHLORINATION	.020 (.091)		MUNICIPALITY
DOWNIE TOWNSHIP ST PAULS MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	.059 (.268)		MUNICIPALITY
DRESDEN TOWN DRESDEN PLANT	SURFC SOURCE CHEM TREATMENT CHLORINATION	.684 (3.109)	SYDENHAM RIVER	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
DUNDALK VILLAGE DUNDALK SUPPLY	GROUND SOURCE CHLORINATION	.432 (1.964)		MUNICIPALITY
DURHAM TOWN MUNICIPAL PLANT	GROUND SOURCE	.763 (3.469)		MUNICIPALITY
DUTTON VILLAGE DUTTON MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(WEST LORNE WATER SUPPLY	MUNICIPALITY
EAST WILLIAMS TOWNSHIP NAIRN SUPPLY	(WATER IS SUPPLIED BY)		(LAKE HURON WSS)	MINISTRY
EAST ZORRA-TAVISTOCK TOWNSHIP TAVISTOCK WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.123 (5.105)		MUNICIPALITY
ELLICE TOWNSHIP BRUNNER MUNICIPAL SUPPLY	GROUND SOURCE	.025 (.114)		MUNICIPALITY
ELMA TOWNSHIP ATWOOD MUNICIPAL SUPPLY	GROUND SOURCE	.065 (.295)		MUNICIPALITY
ENNISKILLEN TOWNSHIP ENNISKILLEN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(PETROLIA W S S)	MUNICIPALITY
ERIE BEACH VILLAGE ERIE BEACH SUPPLY	(WATER IS SUPPLIED BY)		(KENT COUNTY W S S)	MINISTRY
ESSEX TOWN MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION		(UNION-ESSEX WSS)	MUNICIPALITY
EXETER TOWN EXETER WELL SUPPLY	GROUND SOURCE CHLORINATION	1.634 (7.428)		MUNICIPALITY
FOREST TOWN MUNICIPAL PLANT	GROUND SOURCE CHLORINATION	.300 (1.364)		MUNICIPALITY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (1000M^3)	WATERCOURSE	OPERATED BY
GLENCOE VILLAGE GLENCOE WELL SUPPLY	GROUND SOURCE CHLORINATION	.091 (.414)		MUNICIPALITY
GODERICH TOWN GODERICH WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	2.600 (11.820)	LAKE HURON	MINISTRY
GOSFIELD NORTH TOWNSHIP GOSFIELD SUPPLY	(WATER IS SUPPLIED BY)		(UNION WSSEX W S S)	MINISTRY
GOSFIELD SOUTH TOWNSHIP UNION-ESSEX WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	16.000 (72.736)	LAKE ERIE	MINISTRY
GRAND BEND VILLAGE GRAND BEND SUPPLY	(WATER IS SUPPLIED BY)		(LAKE HURON WSS)	MUNICIPALITY
HANOVER TOWN HANOVER WATER SUPPLY	SURFC SOURCE GROUND SOURCE CHLORINATION	1.730 (7.865)	RUHL LAKE	MUNICIPALITY
HARROW TOWN HARROW-COLCHESTER S. WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.250 (10.229)	LAKE ERIE	MINISTRY
HARWICH TOWNSHIP HARWICH SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(BLENHEIM AREA W S S)	MINISTRY
HENSALL VILLAGE MUNICIPAL PLANT	GROUND SOURCE	.432 (1.964)		MUNICIPALITY
INGERSOLL TOWN MUNICIPAL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	3.500 (15.911)		MUNICIPALITY
KINCARDINE TOWN KINCARDINE W T P (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.540 (11.547)	LAKE HURON	MUNICIPALITY
KINGSVILLE TOWN KINGSVILLE SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION		(UNION-ESSEX WSS)	MUNICIPALITY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
LEAMINGTON TOWN MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY)		(UNION-ESSEX WSS)	MUNICIPALITY
LIONS HEAD VILLAGE PRIVATE PLANT	SURFC SOURCE CHLORINATION	.089 (.405)	GEORGIAN BAY	MUNICIPALITY
LISTOWEL TOWN LISTOWELL MUNICIPAL WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	2.400 (10.910)		MUNICIPALITY
LOBO TOWNSHIP KILWORTH HEIGHTS SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.500 (2.273)		MINISTRY
LONDON TOWNSHIP DENFIELD HAMLET SUPPLY	(WATER IS SUPPLIED BY)		(LAKE HURON W S S)	MINISTRY
LONDON TOWNSHIP ILDERTON POLICE VILLAGE SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION		(LAKE HURON WSS)	MUNICIPALITY
LONDON CITY LONDON CITY SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION		(LAKE HURON WSS)	MUNICIPALITY
LUCAN VILLAGE MUNICIPAL PLANT	GROUND SOURCE CHEM TRTMT CHLORINATION	.344 (1.564)		MUNICIPALITY
LUCKNOW VILLAGE MUNICIPAL PLANT	GROUND SOURCE	.684 (3.109)		MUNICIPALITY
MAIDSTONE TOWNSHIP WOODSLEA AREA SUPPLY	(WATER IS SUPPLIED BY)		(BELLE RIVER W T P)	MUNICIPALITY
MALAHIDE TOWNSHIP MALAHIDE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(ELGIN AREA W S S)	MINISTRY
MALDEN TOWNSHIP MALDEN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(AMHERSTBURG AREA W S S)	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (1000M3)	WATERCOURSE	OPERATED BY
MARKDALE VILLAGE MUNICIPALITY	GROUND SOURCE CHLORINATION	.864 (3.928)		MUNICIPALITY
MCGILLIVRAY TOWNSHIP MC GILLIVRAY SUPPLY	(WATER IS SUPPLIED BY)		(LAKE HURON W S S)	MINISTRY
MEAFORD TOWN MEAFORD W T P (DIRECT FILTRATION)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	2.160 (9.819)	GEORGIAN BAY	MUNICIPALITY
MERSEA TOWNSHIP MERSEA SUPPLY	(WATER IS SUPPLIED BY)		(UNION ESSEX W S S)	MUNICIPALITY
MILDMAY VILLAGE MUNICIPAL PLANT	GROUND SOURCE	.360 (1.637)		MUNICIPALITY
MILVERTON VILLAGE MUNICIPAL PLANT	GROUND SOURCE CHEM TRTMT CHLORINATION	.287 (1.305)		MUNICIPALITY
MITCHELL TOWN MITCHELL WTP	GROUND SOURCE PHYSCL TRTMT	.720 (3.273)		MUNICIPALITY
MOORE TOWNSHIP CORUNNA POLICE VILLAGE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(LAMBTON COUNTY WSS)	MINISTRY
MOORE TOWNSHIP MOORETOWN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(LAMBTON COUNTY W S S)	MINISTRY
MOORE TOWNSHIP COURTRIGHT MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(LAMBTON COUNTY W S S)	MINISTRY
MOORE TOWNSHIP BRIGDEN POLICE VILLAGE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(LAMBTON COUNTY WSS)	MINISTRY
NORTH DORCHESTER TOWNSHIP DORCHESTER P.V. MUN PLANT	GROUND SOURCE CHLORINATION	.490 (2.228)		MUNICIPALITY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
NORWICH TOWNSHIP SPRINGFORD HAMLET SUPPLY	GROUND SOURCE	.082 (.373)		MUNICIPALITY
NORWICH TOWNSHIP OTTERVILLE PV MUNICIPAL SUPPLY	GROUND SOURCE	.187 (.850)		MUNICIPALITY
NORWICH TOWNSHIP NORWICH WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.360 (1.637)		MUNICIPALITY
OIL SPRINGS VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	.064 (.291)		MUNICIPALITY
OWEN SOUND CITY SPRING SUPPLY	GROUND SOURCE CHLORINATION FLUORIDATION	1.100 (5.001)		MUNICIPALITY
OWEN SOUND CITY RICHARD H.NEATH WTP (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	4.700 (21.366)	GEORGIAN BAY	MUNICIPALITY
PAISLEY VILLAGE PAISLEY PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.342 (1.555)	TEESWATER RIVER	MUNICIPALITY
PARKHILL TOWN MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION	(	(LAKE HURON WSS)	MUNICIPALITY
PETROLIA TOWN PETROLIA W S S (SEDIMENTATION)	SURFC SOURCE CHEM TREATMENT CHLORINATION FLUORIDATION	3.000 (13.638)	BRIGHTS GROVE (L HURON)	MUNICIPALITY
PLYMPTON TOWNSHIP PLYMPTON TWP. SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(PETROLIA W S S)	MUNICIPALITY
POINT EDWARD VILLAGE POINT EDWARD SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(LAMBTON COUNTY WSS)	MINISTRY
PORT BURWELL VILLAGE MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(ELGIN AREA WSS)	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
PORT ELGIN TOWN PORT ELGIN W T P (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.915 (8.706)	LAKE HURON	MUNICIPALITY
PORT STANLEY VILLAGE PORT STANLEY W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	.600 (2.728)	LAKE ERIE	MUNICIPALITY
RALEIGH TOWNSHIP RALEIGH SUPPLY (ONT HOS CEDAR SPRINGS)	(WATER IS SUPPLIED BY) FLUORIDATION	(	(BLENHEIM AREA W S S)	MINISTRY
RIDGETOWN TOWN MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	.400 (1.818)		MUNICIPALITY
RIPLEY VILLAGE MUNICIPAL PLANT	GROUND SOURCE	.270 (1.227)		MUNICIPALITY
ROCHESTER TOWNSHIP ROCHESTER TWP. SUPPLY	(WATER IS SUPPLIED BY)	(	(UNION ESSEX W S S)	MINISTRY
RODNEY VILLAGE RODNEY SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(WEST LORNE WATER SUPPLY	MUNICIPALITY
SANDWICH SOUTH TOWNSHIP SANDWICH SOUTH SUPPLY	(WATER IS SUPPLIED BY)	(	(UNION-ESSEX W S S)	MINISTRY
SANDWICH SOUTH TOWNSHIP SANDWICH S. SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(WINDSOR AREA W S S)	MUNICIPALITY
SANDWICH WEST TOWNSHIP SANDWICH WEST TWP. SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(WINDSOR AREA W S S)	MUNICIPALITY
SARNIA CITY (DIRECT FILTRATION) LAMBTON COUNTY WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	40.000 (181.840)	LAKE HURON	MINISTRY
SARNIA TOWNSHIP SARNIA TWP. SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(LAMBTON COUNTY W S S)	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (1000M^3)	WATERCOURSE	OPERATED BY
SARNIA TOWNSHIP BRIGHTS GROVE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(PETROLIA WSS)	MUNICIPALITY
SEAFORTH TOWN SEAFORTH SUPPLY	GROUND SOURCE CHLORINATION	.720 (3.273)		MUNICIPALITY
SOMBRA TOWNSHIP PORT LAMBTON P V SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(LAMBTON COUNTY WSS)	MUNICIPALITY
SOMBRA TOWNSHIP SOMBRA P V SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(LAMBTON COUNTY WSS)	MUNICIPALITY
SOUTH-WEST OXFORD TOWNSHIP BROWNSVILLE HAMLET SUPPLY	GROUND SOURCE	.062 (.282)		MUNICIPALITY
SOUTH-WEST OXFORD TOWNSHIP MT ELGIN HAMLET SUPPLY	GROUND SOURCE CHLORINATION	.057 (.259)		MUNICIPALITY
SOUTH-WEST OXFORD TOWNSHIP BEACHVILLE-LOWEVILLE SUBDIVISION SUPPLY	GROUND SOURCE CHLORINATION	.050 (.227)		MUNICIPALITY
SOUTHAMPTON TOWN SOUTHAMPTON W T P (DIRECT FILTRATION)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.840 (3.819)	LAKE HURON	MINISTRY
SOUTHWOLD TOWNSHIP SOUTHWOLD SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(ELGIN AREA W S S)	MINISTRY
ST CLAIR BEACH VILLAGE ST CLAIR BEACH SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(WINDSOR WATER SUPPLY)	MUNICIPALITY
ST MARYS SEPARATED TOWN MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	2.300 (10.456)		MUNICIPALITY
ST THOMAS CITY MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	.0 (	(ELGIN AREA WSS)	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
STEPHEN TOWNSHIP (DIRECT FILTRATION) LAKE HURON WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	40.000 (181.840)	LAKE HURON	MINISTRY
STEPHEN TOWNSHIP CENTRALIA IND PARK SUPPLY	GROUND SOURCE CHLORINATION	.576 (2.618)		ONT, DEVLM'T CORPORATION
STRATFORD CITY STRATFORD WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	6.466 (29.394)		MUNICIPALITY
STRATHROY TOWN MUNICIPAL PLANT	GROUND SOURCE	3.400 (15.456)		MUNICIPALITY
TARA VILLAGE MUNICIPAL PLANT	GROUND SOURCE CHLORINATION	.219 (.996)		MUNICIPALITY
TECUMSEH TOWN TECUMSEH SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(WINDSOR WATER SUPPLY)	MUNICIPALITY
TEESWATER VILLAGE MUNICIPAL PLANT	GROUND SOURCE	.569 (2.587)		MUNICIPALITY
THEDFORD VILLAGE THEDFORD WWKS	GROUND SOURCE CHLORINATION	.072 (.327)		MINISTRY
THORNBURY TOWN THORNBURY W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.100 (5.001)	GEORGIAN BAY	MINISTRY
TILBURY TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	1.434 (6.519)	LAKE ST.CLAIR	MUNICIPALITY
TILBURY NORTH TOWNSHIP STONEY POINT P.V. WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.864 (3.928)	LAKE ST.CLAIR	MUNICIPALITY
TILBURY W. TOWNSHIP COMBER POLICE VILLAGE SUPPLY	(WATER IS SUPPLIED BY)	(	(TILBURY NORTH W S S)	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (1000M^3)	WATERCOURSE	OPERATED BY
TILLSONBURG TOWN TILLSONBURG W T P	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	2.200 (10.001)		MUNICIPALITY
TIVERTON VILLAGE TIVERTON SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.276 (1.255)		MUNICIPALITY
TUCKERSMITH TOWNSHIP VAN ASTRA	(WATER IS SUPPLIED BY) CHLORINATION	(	(CLINTON SUPPLY)	MINISTRY
TUCKERSMITH TOWNSHIP EGMONDVILLE PLANT	GROUND SOURCE	.144 (.655)		MUNICIPALITY
VIENNA VILLAGE VIENNA	(WATER IS SUPPLIED BY) FLUORIDATION	(	(ELGIN AREA WSS)	MINISTRY
WALKERTON TOWN WALKERTON WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.865 (8.478)		MUNICIPALITY
WALLACE TOWNSHIP GOWANSTOWN WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.014 (.064)		MUNICIPALITY
WALLACEBURG TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	2.600 (11.820)	CHENAL ECARTE	MUNICIPALITY
WATFORD VILLAGE WATFORD SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(PETROLIA WSS)	MUNICIPALITY
WEST LORNE VILLAGE WEST LORNE WATER SUPPLY	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.547 (2.487)	LAKE ERIE	MUNICIPALITY
WEST WILLIAMS TOWNSHIP WEST WILLIAMS SUPPLY	(WATER IS SUPPLIED BY)	(	(LAKE HURON W S S)	MINISTRY
WESTMINSTER TOWNSHIP WESTMINSTER SUPPLY	(WATER IS SUPPLIED BY)	(	(LAKE HURON W S S)	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
WESTMINSTER TOWNSHIP LAMBETH POLICE VILLAGE MUNICIPAL PLANT	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	1.922 (8.737)		MUNICIPALITY
WHEATLEY VILLAGE MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.800 (3.637)	LAKE ERIE	MUNICIPALITY
WIARTON TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION	1.050 (4.773)	GEORGIAN BAY	MUNICIPALITY
WINDSOR CITY MAIN PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	60.000 (272.760)	DETROIT RIVER	MUNICIPALITY
WINGHAM TOWN WINGHAM SUPPLY	GROUND SOURCE CHLORINATION	2.660 (12.092)		MUNICIPALITY
WOODSTOCK CITY WOODSTOCK WELL SUPPLY	GROUND SOURCE CHLORINATION	10.500 (47.733)		MUNICIPALITY
WYOMING VILLAGE WYOMING SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(PETROLIA WSS)	MUNICIPALITY
YARMOUTH TOWNSHIP ELGIN AREA WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	10.000 (45.460)	LAKE ERIE	MINISTRY
ZORRA TOWNSHIP THAMESFORD PV MUNICIPAL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.180 (.818)		MUNICIPALITY
ZORRA TOWNSHIP EMBRO SUPPLY	GROUND SOURCE	.201 (.914)		MUNICIPALITY
ZURICH VILLAGE MUNICIPAL PLANT	GROUND SOURCE CHLORINATION	.317 (1.441)		MUNICIPALITY

SOUTHWESTERN REGION

Area Water Supply Systems

Total Area Water Supply Systems	Total Capacity
12	187.661 MIGD (853.155 1000M^3)

AREA WATER SUPPLY SYSTEMS

SYSTEM: AMHERSTBURG-ANDERDON-MALDEN-WATER SUPPLY (AMHERSTBURG AREA W.S.S.)

Number of Plants: ONE
Number of Municipalities Served: FOUR
Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
ANDERDON TWP. (Near North End of Amherstburg)	Screening (power) Coagulation Flocculation Sedimentation Filtration Chlorination Fluoridation	4.0 MIGD (18.2 $1000M^3$)	Amherstburg Town Colchester N. Twp. (McGregor) Malden Twp. Anderdon Twp.	Detroit River

SYSTEM: BLENHEIM AREA WATER SUPPLY

Number of Plants: ONE
Number of Municipalities Served: THREE
Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
BLENHEIM TOWN (Raleigh Twp. 4 mile west of Cedar Springs)	Screening (Manual) Coagulation Flocculation Sedimentation Filtration Fluoridation Chlorination	1.0 MIGD (4.6 $1000M^3$)	Harwich Twp. Raleigh Twp. (Ontario Hospital Cedar Springs) Blenheim Town	Lake Erie

SYSTEM: ELGIN AREA WATER SUPPLY

Number of Plants: ONE
Number of Municipalities Served: SEVEN
Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
YARMOUTH TOWNSHIP	Screening Coagulation Flocculation Sedimentation Filtration Chlorination Fluoridation	10.0 MIGD (45.5 $1000M^3$)	Yarmouth Twp. Malahide Twp. Bayham Twp. Vienna Village St. Thomas City Port Burwell Village (Ford Motor Co. Ltd.) Southwold Twp.	Lake Erie

SYSTEM: HARROW-COLCHESTER SOUTH WATER SUPPLY

Number of Plants: ONE
Number of Municipalities Served: TWO
Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
HARROW TOWN	Microstraining Coagulation Flocculation Sedimentation Filtration Chlorination	2.25 MIGD (10.23 $1000M^3$)	Colchester S. Twp. -Colchester Hamlet Harrow Town	Lake Erie

SYSTEM: KENT COUNTY WATER SUPPLY

Number of Plants: ONE Number of Municipalities Served: TWO

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
*CHATHAM CITY (Intake is in Raleigh Twp.)	Screening Coagulation Flocculation Chlorination	10.0 MIGD (45.46 1000M^3)	Chatham City **(Erie Beach Village)	Lake Erie

*Note: Water from Lake Erie is pumped to Chatham's Treatment Plant which has a capacity of 10.0 MIGD
** Temporary Supply to Erie Beach.

SYSTEM: LAKE HURON WATER SUPPLY

Number of Plants: ONE Number of Municipalities Served: ELEVEN

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION		TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
STEPHEN TOWNSHIP (North of Grand Bend)	(DIRECT)	Screening Coagulation Flocculation Filtration Chlorination	40.0 MIGD (181.8 1000M^3)	Ailsa Craig Village Bosanquet Twp. Grand Bend Village London City London Twp. (Ilderton) (Denfield) McGillvray Twp. Parkhill Town Stephen Twp. East Williams Twp. (Nairn) West Williams Twp. Westminister Twp.	Lake Huron

SYSTEM: LAMBTON COUNTY WATER SUPPLY

Number of Plants: ONE Number of Municipalities Served: FIVE

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
SARNIA CITY	Coagulation Flocculation Sedimentaiton Filtration Fluoridation Chlorination	40.0 MIGD (181.8 $1000M^3$)	Point Edward Village Sarnia City Sarnia Twp. Moore Twp. -Corunna - Mooretown -Courtright - Brigden Sombra Twp. -Sombra - Port Lambton	At confluence of St. Clair River and Lake Huron

SYSTEM: PETROLIA WATER SUPPLY

Number of Plants: ONE Number of Municipalities Served: SIX

Operated By: PETROLIA PUBLIC UTILITIES COMMISSION

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
SARNIA TOWNSHIP (Brights Grove)	Coagulation Flocculaiton Sedimentation Fluoridation Chlorination	3.0 MIGD (13.6 $1000M^3$)	Enniskillen Twp. Petrolia Town Plympton Twp. Sarnia Twp. - Brights Grove *Watford Village *Wyoming Village	Lake Huron

*Note: A Ministry operated pipeline connected to this system feeds the villages of Watford and Wyoming and portions of Plympton Twp.

SYSTEM: TILBURY NORTH WATER SUPPLY

Number of Plants: ONE
Number of Municipalities Served: THREE
Operated By: TILBURY PUBLIC UTILITIES COMMISSION

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
TILBURY N. TOWNSHIP (Stoney Point WTP.)	Coagulation Flocculation Sedimentation Chlorination Filtration (pressure)	0.864 MIGD ($3.928\ 1000M^3$)	Tilbury N. *Tilbury W. Police Village of Comber	Lake St. Clair

*Note: A Ministry owned pipeline connected to the Treatment Plant feeds most of Tilbury North Township, the Police Village of Comber and portions of Tilbury West Township adjacent to and north of the Police Village.

SYSTEM: UNION-ESSEX WATER SUPPLY SYSTEM

Number of Plants: ONE
Number of Municipalities Served: NINE
Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
GOSFIELD SOUTH TWP. (Union Plant)	Coarse Screening Microstraining Coagulation Flocculation Sedimentation Filtration Carbon Adsorption Chlorination	16.0 MIGD ($72.75\ 1000M^3$)	Gosfield South Twp. Essex Town Gosfield North Twp. Kingsville Town Mersea Twp. Rochester Twp. Maidstone Twp. Leamington Town *(HJ Heinz Co. Ltd.) Sandwich South Twp.	Lake Erie

*Note: H.J. Heinz Co. Ltd. is a major user of the system. Interconnections have been made for emergency use to the Belle River and Harrow-Colchester S. area water systems.

SYSTEM: WEST LORNE WATER SUPPLY

Number of Plants: ONE

Number of Municipalities Served: THREE

Operated By: WEST LORNE PUBLIC UTILITIES COMMISSION

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
WEST LORNE VILLAGE	Coagulation Flocculation Sedimentation Filtration Chlorination Fluoridation	0.547 MIGD (2.487 $1000M^3$)	West Lorne Village Dutton Village Rodney Village	Lake Erie

SYSTEM: WINDSOR WATER SUPPLY

Number of Plants: ONE

Number of Municipalities Served: FIVE

Operated By: WINDSOR PUBLIC UTILITIES COMMISSION

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
WINDSOR CITY (Windsor Main Plant)	Coagulation Flocculation Sedimentation Filtration Taste & Odour Control Fluoridation Chlorination	60.0 MIGD (272.8 $1000M^3$)	Windsor City Sandwich South Sandwich West St. Clair Beach Tecumseh Town	Detroit River

West Central Region

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Ontario

Ministry of the Environment

REGIONAL OFFICE

STONEY CREEK
140 Centennial Pkwy. N.
416-561-7410

DISTRICT OFFICES

Welland
637-641 Niagara St. N.
416-735-0431

Cambridge
400 Clyde Road
P.O. Box 219
519-623-2080

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WEST CENTRAL REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD ($1000M^3$) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	0	27	27		80.654	80.654 (366.653)
GROUND SOURCE PHYSCL TRTMT	0	3	3		.988	.988 (4.491)
GROUND SOURCE CHEM TRTMT	1	4	5	.216	22.398	22.614 (102.803)
GROUND SOURCE PHYS & CHEM TRTMT	0	1	1		.209	.209 (.950)
SURFC SOURCE	0	1	1		.202	.202 (.918)
SURFC SOURCE PHYSCL TREATMT	1	5	6	20.500	17.630	38.130 (173.339)
SURFC SOURCE PHYS & CHEM TRTMT	1	14	15	3.000	276.670	279.670 (1,271.380)
**** TOTALS ****	3	55	58	23.716 (107.813)	398.751 (1,812.722)	422.467 (1,920.535)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY

$1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:

1 MGD = 4.546 $1000M^3$

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ANCASTER TOWN MUNICIPAL PLANT	GROUND SOURCE	2.074 (9.428)		MUNICIPALITY
ANCASTER TOWN ANCASTER SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(HAMILTON WATER SUPPLY)	MUNICIPALITY
ARTHUR VILLAGE ARTHUR SUPPLY	GROUND SOURCE	.450 (2.046)		MUNICIPALITY
BRANTFORD TOWNSHIP AIRPORT PLANT	GROUND SOURCE CHLORINATION	.504 (2.291)		MUNICIPALITY
BRANTFORD CITY MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	25.000 (113.650)	GRAND RIVER	MUNICIPALITY
BRANTFORD TOWNSHIP TUTELA HEIGHTS	GROUND SOURCE CHLORINATION	.288 (1.309)		MUNICIPALITY
CAMBRIDGE CITY CAMBRIDGE SUPPLY (GALT-HESPLER-PRESTON)	GROUND SOURCE CHLORINATION	16.128 (73.318)		MUNICIPALITY
CLIFFORD VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE	.288 (1.309)		MUNICIPALITY
DELHI TOWNSHIP DELHI - SPRING SUPPLY	GROUND SOURCE CHLORINATION	.185 (.841)		MUNICIPALITY
DELHI TOWNSHIP DELHI-FILTRATION PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.500 (6.819)	NORTH CREEK	MUNICIPALITY
DELHI TOWNSHIP ST WILLIAMS POLICE VILLAGE SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.058 (.264)		MUNICIPALITY
DELHI TOWNSHIP TURKEY POINT -BOWEN WATER SUPPLY	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.300 (1.364)	LAKE ERIE	MUNICIPALITY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
DUNDAS TOWN MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(HAMILTON WATER SUPPLY)	MUNICIPALITY
DUNNVILLE TOWN *(FORMER DUNN TWP PLANT)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	20.500 (93.193)	LAKE ERIE	MINISTRY
DUNNVILLE TOWN DUNVILLE W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION (WATER IS SUPPLIED BY)	3.500 (15.911)	*(FORMER DUNN TWP PLANT)	MUNICIPALITY
ELORA VILLAGE ELORA SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.668 (3.037)		MUNICIPALITY
ERIN VILLAGE ERIN SUPPLY	GROUND SOURCE CHLORINATION	.612 (2.782)		MUNICIPALITY
FERGUS TOWN MUNICIPAL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.250 (5.683)		MUNICIPALITY
FLAMBOROUGH TOWNSHIP WATERDOWN SUPPLY	GROUND SOURCE PLUS (WATER IS SUPPLIED BY)	.092 (.418)	(BURLINGTON W S S)	MUNICIPALITY
FORT ERIE TOWN FORMER VILLAGE OF CRYSTAL BEACH PLANT	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	1.500 (6.819)	LAKE ERIE	MUNICIPALITY
FORT ERIE TOWN FORMER TOWNSHIP OF BERTIE PLANT	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	9.000 (40.914)	LAKE ERIE	MUNICIPALITY
GRIMSBY TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	4.600 (20.912)	LAKE ONTARIO	MUNICIPALITY
GUELPH CITY GUELPH (ARKEL-AREA) * 22.9 MGD SUMMER CAP	GROUND SOURCE CHEM TRTMT CHLORINATION	19.900 * WINTER CAPACITY (90.465)	RECHARGE FROM ERAMOSA R.	MUNICIPALITY
HALDIMAND TOWN HAGERSVILLE PLANT	GROUND SOURCE CHLORINATION	.720 (3.273)		MUNICIPALITY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
HALDIMAND TOWN CAYUGA PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.240 (1.091)	GRAND RIVER	MUNICIPALITY
HALDIMAND TOWN CALEDONIA PLANT	GROUND SOURCE CHLORINATION	.684 (3.109)		MUNICIPALITY
HAMILTON CITY WOODWARD AVENUE W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	150.000 (681.900)	LAKE ONTARIO	MUNICIPALITY
HARRISTON TOWN MUNICIPAL SUPPLY	GROUND SOURCE	.864 (3.928)		MUNICIPALITY
KITCHENER CITY KITCHENER WELL FIELDS	GROUND SOURCE	22.000 (100.012)		MUNICIPALITY
KITCHENER CITY BRIDGEPORT SUPPLY	(WATER IS SUPPLIED BY)	(	(KITCHENER WATER SUPPLY)	MUNICIPALITY
LINCOLN TOWN FORMER HAMLET OF VINELAND PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.630 (2.864)	LAKE ONTARIO	MUNICIPALITY
LINCOLN TOWN FORMER TOWN OF BEAMSVILLE PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.900 (4.091)	LAKE ONTARIO	MUNICIPALITY
MOUNT FOREST TOWN MT.FOREST WELL SUPPLY (EMERG CAP 2.379 MG)	GROUND SOURCE CHLORINATION	* 1.947 (8.851)		MUNICIPALITY
NANTICOKE CITY HALDIMAND - NORFOLK WTP (STELCO-TEXACO)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	3.000 (13.638)	LAKE ERIE	MINISTRY
NANTICOKE CITY JARVIS PLANT	SURFC SOURCE CHLORINATION	.202 (.918)	LAKE ERIE	MUNICIPALITY
NANTICOKE CITY PORT DOVER-SPRING SUPPLY	GROUND SOURCE CHLORINATION (WATER IS SUPPLIED BY)	2.300 (10.456)	(PORT DOVER PLANT)	MUNICIPALITY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
NANTICOKE CITY PORT DOVER PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.300 (10.456)	LAKE ERIE	MUNICIPALITY
NANTICOKE CITY WATERFORD SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.776 (3.528)		MUNICIPALITY
NIAGARA FALLS CITY MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	32.000 (145.472)	NIAGARA RIVER	MUNICIPALITY
NIAGARA-ON-THE-LAKE TOWN VIRGIL/ST.DAVID'S SUPPLY	GROUND SOURCE CHLORINATION	1.397 (6.351)		MUNICIPALITY
NIAGARA-ON-THE-LAKE TOWN FORMER TOWN OF NIAGARA PLANT	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.830 (3.773)	NIAGARA RIVER	MUNICIPALITY
NORFOLK TOWNSHIP COURTLAND SUPPLY IRON SEQUESTERING	GROUND SOURCE CHEM TRTMT CHLORINATION	.216 (.982)		MINISTRY
NORFOLK TOWNSHIP PORT ROWAN PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.500 (2.273)	LAKE ERIE	MUNICIPALITY
ORANGEVILLE TOWN ORANGEVILLE SUPPLY	GROUND SOURCE	4.770 (21.684)		MUNICIPALITY
PALMERSTON TOWN MUNICIPAL SUPPLY	GROUND SOURCE	.580 (2.637)		MUNICIPALITY
PARIS TOWN PARIS SUPPLY	GROUND SOURCE CHLORINATION FLUORIDATION	2.304 (10.474)		MUNICIPALITY
PELHAM TOWN FORMER VILLAGE OF FONTHILL PLANT	GROUND SOURCE CHLORINATION	1.000 (4.546)		MUNICIPALITY
PORT COLBORNE CITY MUNICIPAL PLANT	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	6.000 (27.276)	WELLAND SHIP CANAL	MUNICIPALITY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
SHELBURNE VILLAGE SHELBURNE SUPPLY	GROUND SOURCE CHLORINATION	1.286 (5.846)		MUNICIPALITY
SIMCOE TOWN MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	3.350 (15.229)		MUNICIPALITY
SOUTH DUMFRIES TOWNSHIP ST GEORGE P.V. PLANT	GROUND SOURCE	1.800 (8.183)		MUNICIPALITY
ST CATHARINES CITY DE CEW (MAIN PLANT)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	42.000 (190.932)	WELLAND SHIP CANAL	MUNICIPALITY
STONEY CREEK TOWN MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(HAMILTON WATER SUPPLY)	MUNICIPALITY
THOROLD CITY FORMER HAMLET OF PORT ROBINSON PLANT	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.154 (.700)	WELLAND SHIP CANAL	MUNICIPALITY
THOROLD CITY THOROLD WATER SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(ST CATHARINES DE CEW)	MUNICIPALITY
WATERLOO CITY MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION FLUORIDATION	8.500 (38.641)		MUNICIPALITY
WELLAND CITY PLANT ONE	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	9.000 (40.914)	WELLAND SHIP CANAL	MUNICIPALITY
WELLAND CITY PLANT TWO	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	4.500 (20.457)	WELLAND SHIP CANAL	MUNICIPALITY
WELLESLEY TOWNSHIP LINWOOD POLICE VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE	.031 (.141)		MUNICIPALITY
WEST LINCOLN TOWNSHIP SMITHVILLE PLANT	GROUND SOURCE CHEM TRTMT CHLORINATION	.580 (2.637)		MUNICIPALITY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
WILMOT TOWNSHIP NEW HAMBURG - BADEN SUPPLY	GROUND SOURCE CHLORINATION	1.800 (8.183)		MUNICIPALITY
WOOLWICH TOWNSHIP ELMIRA SUPPLY	GROUND SOURCE	4.700 (21.366)		MUNICIPALITY
WOOLWICH TOWNSHIP ST JACOBS POLICE VILLAGE W T P	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.209 (.950)		MUNICIPALITY

WEST CENTRAL REGION

Regional Municipalities

Regional Municipalities	Total Capacity (WATER TREATMENT)
HALDIMAND-NORFOLK	359.956 MIGD
HAMILTON-WENTWORTH	(1636.361 $1000M^3$)
NIAGARA	
WATERLOO	

REGIONAL MUNICIPALITY OF HALDIMAND-NORFOLK

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
DELHI TOWNSHIP DELHI - SPRING SUPPLY	GROUND SOURCE CHLORINATION	.185 (.841)		MUNICIPALITY
DELHI TOWNSHIP DELHI-FILTRATION PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.500 (6.819)	NORTH CREEK	MUNICIPALITY
DELHI TOWNSHIP ST WILLIAMS POLICE VILLAGE SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.058 (.264)		MUNICIPALITY
DELHI TOWNSHIP TURKEY POINT -BOWEN WATER SUPPLY	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.300 (1.364)	LAKE ERIE	MUNICIPALITY
DUNNVILLE TOWN *(FORMER DUNN TWP PLANT)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	20.500 (93.193)	LAKE ERIE	MINISTRY
DUNNVILLE TOWN DUNVILLE W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION (WATER IS SUPPLIED BY)	3.500 (15.911)	*(FORMER DUNN TWP PLANT)	MUNICIPALITY
HALDIMAND TOWN HAGERSVILLE PLANT	GROUND SOURCE CHLORINATION	.720 (3.273)		MUNICIPALITY
HALDIMAND TOWN CAYUGA PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.240 (1.091)	GRAND RIVER	MUNICIPALITY
HALDIMAND TOWN CALEDONIA PLANT	GROUND SOURCE CHLORINATION	.684 (3.109)		MUNICIPALITY
NANTICOKE CITY HALDIMAND - NORFOLK WTP (STELCO-TEXACO)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	3.000 (13.638)	LAKE ERIE	MINISTRY
NANTICOKE CITY PORT DOVER-SPRING SUPPLY	GROUND SOURCE CHLORINATION (WATER IS SUPPLIED BY)	2.300 (10.456)	(PORT DOVER PLANT)	MUNICIPALITY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
NANTICOKE CITY PORT DOVER PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.300 (10.456)	LAKE ERIE	MUNICIPALITY
NANTICOKE CITY JARVIS PLANT	SURFC SOURCE CHLORINATION	.202 (.918)	LAKE ERIE	MUNICIPALITY
NANTICOKE CITY WATERFORD SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.776 (3.528)		MUNICIPALITY
NORFOLK TOWNSHIP COURTLAND SUPPLY IRON SEQUESTERING	GROUND SOURCE CHEM TRTMT CHLORINATION	.216 (.982)		MINISTRY
NORFOLK TOWNSHIP PORT ROWAN PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.500 (2.273)	LAKE ERIE	MUNICIPALITY
SIMCOE TOWN MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	3.350 (15.229)		MUNICIPALITY
TOTAL CAPACITY		40.331 (183.345)		

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ANCASTER TOWN MUNICIPAL PLANT	GROUND SOURCE	2.074 (9.428)		MUNICIPALITY
ANCASTER TOWN ANCASTER SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(HAMILTON WATER SUPPLY)	MUNICIPALITY
DUNDAS TOWN MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(HAMILTON WATER SUPPLY)	MUNICIPALITY
FLAMBOROUGH TOWNSHIP WATERDOWN SUPPLY	GROUND SOURCE PLUS (WATER IS SUPPLIED BY)	.092 (.418)	(BURLINGTON W S S)	MUNICIPALITY
HAMILTON CITY WOODWARD AVENUE W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	150.000 (681.900)	LAKE ONTARIO	MUNICIPALITY
STONEY CREEK TOWN MUNICIPAL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(HAMILTON WATER SUPPLY)	MUNICIPALITY
TOTAL CAPACITY		152.166 (691.747)		

REGIONAL MUNICIPALITY OF NIAGARA

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
FORT ERIE TOWN FORMER VILLAGE OF CRYSTAL BEACH PLANT	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	1.500 (6.819)	LAKE ERIE	MUNICIPALITY
FORT ERIE TOWN FORMER TOWNSHIP OF BERTIE PLANT	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	9.000 (40.914)	LAKE ERIE	MUNICIPALITY
GRIMSBY TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	4.600 (20.912)	LAKE ONTARIO	MUNICIPALITY
LINCOLN TOWN FORMER HAMLET OF VINELAND PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.630 (2.864)	LAKE ONTARIO	MUNICIPALITY
LINCOLN TOWN FORMER TOWN OF BEAMSVILLE PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.900 (4.091)	LAKE ONTARIO	MUNICIPALITY
NIAGARA FALLS CITY MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	32.000 (145.472)	NIAGARA RIVER	MUNICIPALITY
NIAGARA-ON-THE-LAKE TOWN VIRGIL/ST.DAVID'S SUPPLY	GROUND SOURCE CHLORINATION	1.397 (6.351)		MUNICIPALITY
NIAGARA-ON-THE-LAKE TOWN FORMER TOWN OF NIAGARA PLANT	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.830 (3.773)	NIAGARA RIVER	MUNICIPALITY
PELHAM TOWN FORMER VILLAGE OF FONTHILL PLANT	GROUND SOURCE CHLORINATION	1.000 (4.546)		MUNICIPALITY
PORT COLBORNE CITY MUNICIPAL PLANT	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	6.000 (27.276)	WELLAND SHIP CANAL	MUNICIPALITY
ST CATHARINES CITY DE CEW (MAIN PLANT)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	42.000 (190.932)	WELLAND SHIP CANAL	MUNICIPALITY

REGIONAL MUNICIPALITY OF NIAGARA

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
THOROLD CITY FORMER HAMLET OF PORT ROBINSON PLANT	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.154 (.700)	WELLAND SHIP CANAL	MUNICIPALITY
THOROLD CITY THOROLD WATER SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(ST CATHARINES DE CEW)	MUNICIPALITY
WELLAND CITY PLANT TWO	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	4.500 (20.457)	WELLAND SHIP CANAL	MUNICIPALITY
WELLAND CITY PLANT ONE	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	9.000 (40.914)	WELLAND SHIP CANAL	MUNICIPALITY
WEST LINCOLN TOWNSHIP SMITHVILLE PLANT	GROUND SOURCE CHEM TRTMT CHLORINATION	.580 (2.637)		MUNICIPALITY
TOTAL CAPACITY		114.091 (518.658)		

REGIONAL MUNICIPALITY OF WATERLOO

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
CAMBRIDGE CITY CAMBRIDGE SUPPLY (GALT-HESPLER-PRESTON)	GROUND SOURCE CHLORINATION	16.128 (73.318)		MUNICIPALITY
KITCHENER CITY KITCHENER WELL FIELDS	GROUND SOURCE	22.000 (100.012)		MUNICIPALITY
KITCHENER CITY BRIDGEPORT SUPPLY	(WATER IS SUPPLIED BY)	(	(KITCHENER WATER SUPPLY)	MUNICIPALITY
WATERLOO CITY MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION FLUORIDATION	8.500 (38.641)		MUNICIPALITY
WELLESLEY TOWNSHIP LINWOOD POLICE VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE	.031 (.141)		MUNICIPALITY
WILMOT TOWNSHIP NEW HAMBURG - BADEN SUPPLY	GROUND SOURCE CHLORINATION	1.800 (8.183)		MUNICIPALITY
WOOLWICH TOWNSHIP ELMIRA SUPPLY	GROUND SOURCE	4.700 (21.366)		MUNICIPALITY
WOOLWICH TOWNSHIP ST JACOBS POLICE VILLAGE W T P	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.209 (.950)		MUNICIPALITY
TOTAL CAPACITY		53.368 (242.611)		

WEST CENTRAL REGION

Area Water Supply Systems

Total Area Water Supply Systems	Total Capacity
1	150.000 MIGD (681.90 1000M^3)

AREA WATER SUPPLY SYSTEMS

SYSTEM: HAMILTON WATER SUPPLY

Number of Plants: ONE

Number of Municipalities Served: FOUR

Operated By: REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
HAMILTON CITY (Woodward Ave. Plant)	Screening Coagulation Flocculation Sedimentation Filtration Chlorination Fluoridation	150.0 MIGD ($681.9\ 1000M^3$)	Ancaster Town Dundas Town Hamilton City Stoney Creek Town	Lake Ontario

Central Region

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Ontario

Ministry of the Environment

REGIONAL OFFICE

DON MILLS
150 Ferrand Dr.
416-424-3000

DISTRICT OFFICES

Barrie
12 Fairview Rd.
705-726-1730

Muskoka-Haliburton
Gravenhurst Shopping Centre
705-687-3408

Peterborough
139 George St. N.
705-743-2972

Halton-Peel
1226 White Oaks Blvd.
Oakville
416-844-5747

SUB-OFFICE

Huntsville
100 Main St. E.
705-789-2386



Central Region

Ministry of the Environment
Ontario

REGIONAL OFFICE
DON MILLS
150 Ferrand Dr.
416-424-3000

DISTRICT OFFICES
Barrie
12 Fairview Rd.
705-726-1730

Muskoka-Haliburton
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Peterborough
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Halton-Peel
1226 White Oaks Blvd.
Oakville
416-844-5747

SUB-OFFICE
Huntsville
100 Main St. E.
705-789-2386

CENTRAL REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD (10^3 $1000M^3$) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	1	26	27	.108	25.939	26.047 (118.410)
GROUND SOURCE PHYSCL TRTMT	0	5	5		10.130	10.130 (46.051)
GROUND SOURCE CHEM TRTMT	0	17	17		27.656	27.656 (125.724)
GROUND SOURCE PHYS & CHEM TRTMT	1	2	3	.020	3.866	3.886 (17.666)
SURFC SOURCE	0	10	10		16.926	16.926 (76.946)
SURFC SOURCE PHYSCL TREATMT	1	1	2	.825	6.000	6.825 (31.026)
SURFC SOURCE PHYS & CHEM TRTMT	6	21	27	126.436	578.514	704.950 (3,204.703)
**** TOTALS ****	9	82	91	127.389 (579.110)	669.031 (3,041.415)	796.420 (3,620.525)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY

10^3 $1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:

1 MGD = 4.546 10^3 $1000M^3$

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
AJAX TOWN AJAX MUN PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	12.000 (54.552)	LAKE ONTARIO	MUNICIPALITY
ALLISTON TOWN ALLISTON SUPPLY	GROUND SOURCE	1.440 (6.546)		MUNICIPALITY
ANSON HINDON MINDEN TOWNSHIP ANSON HINDON MINDEN SUPPLY(FE REMOVAL)	GROUND SOURCE CHEM TRTMT CHLORINATION	.269 (1.223)		MUNICIPALITY
AURORA TOWN MUNICIPAL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	3.740 (17.002)		MUNICIPALITY
BARRIE CITY BARRIE W T P	GROUND SOURCE CHEM TRTMT CHLORINATION	13.580 (61.735)		MUNICIPALITY
BEETON VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.532 (2.418)		MUNICIPALITY
BICROFT IMPROVEMENT DISTRICT CARDIFF TOWNSITE PLANT	GROUND SOURCE	.144 (.655)		MUNICIPALITY
BICROFT IMPROVEMENT DISTRICT BICROFT HEIGHTS SUPPLY	SURFC SOURCE CHLORINATION	.122 (.555)	CENTRE LAKE	MUNICIPALITY
BOBCAYGEON VILLAGE BOBCAYGEON WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.024 (.109)	BOBCAYGEON RIVER	MINISTRY
BRACEBRIDGE TOWN MUNICIPAL SUPPLY	SURFC SOURCE GROUND SOURCE CHLORINATION	1.850 (8.410)	LAKE MUSKOKA	MUNICIPALITY
BRADFORD TOWN BRADFORD WELL SUPPLY	GROUND SOURCE CHLORINATION	1.500 (6.819)		MUNICIPALITY
BRAMPTON CITY BRAMPTON SUPPLY	(WATER IS SUPPLIED BY)	(	(SOUTH PEEL AREA WSS)	MINISTRY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
BRECHIN POLICE VILLAGE BRECHIN SUPPLY	(WATER IS SUPPLIED BY)	(	(LAGOON CITY W T P)	MINISTRY
BRIGHTON VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	1.100 (5.001)		MUNICIPALITY
BROCK TOWNSHIP CANNINGTON SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.300 (1.364)		MUNICIPALITY
BROCK TOWNSHIP SUNDERLAND PV SUPPLY	GROUND SOURCE	.468 (2.128)		MUNICIPALITY
BROCK TOWNSHIP BEAVERTON SUPPLY	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.740 (3.364)	LAKE SIMCOE	MUNICIPALITY
BURLINGTON CITY MUNICIPAL PLANT (MULTI YEAR EXPANSION PROGRAM) (ULTIMATE CAPACITY 51.0 MIGD)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	31.000 (140.926)	LAKE ONTARIO	MUNICIPALITY
CALEDON TOWN BOLTON WWKS	GROUND SOURCE CHEM TRTMT CHLORINATION	1.440 (6.546)		MUNICIPALITY
CALEDON TOWN FARMERS LANE WWKS	GROUND SOURCE CHLORINATION	.036 (.164)		MUNICIPALITY
CALEDON TOWN CALEDON EAST WWKS	GROUND SOURCE CHEM TRTMT CHLORINATION	.400 (1.818)		MUNICIPALITY
CALEDON TOWN PALGRAVE WWKS	GROUND SOURCE CHEM TRTMT CHLORINATION	.864 (3.928)		MUNICIPALITY
CALEDON TOWN CALEDON HAMLET WWKS (HAWTHORNE ACRES)	GROUND SOURCE CHEM TRTMT CHLORINATION	.144 (.655)		MUNICIPALITY
CALEDON TOWN MONO MILLS SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.230 (1.046)		MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
CALEDON TOWN INGLEWOOD SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.054 (.245)		MUNICIPALITY
CALEDON TOWN FOOTHILL FARM WWKS	GROUND SOURCE CHEM TRTMT CHLORINATION	.100 (.455)		MUNICIPALITY
CAMPBELLFORD TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.250 (5.683)	TRENT RIVER	MUNICIPALITY
COBOURG TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	8.000 (36.368)	LAKE ONTARIO	MUNICIPALITY
COLBORNE VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	1.000 (4.546)		MUNICIPALITY
COLDWATER VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	.125 (.568)		MUNICIPALITY
COLLINGWOOD TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION	10.500 (47.733)	GEORGIAN BAY	MUNICIPALITY
COOKSTOWN VILLAGE COOKSTOWN WELL SUPPLY	GROUND SOURCE CHLORINATION	.248 (1.127)		MUNICIPALITY
CREEMORE VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	.400 (1.818)		MUNICIPALITY
EAST YORK BOROUGH EAST YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP SHARON POLICE VILLAGE SUPPLY	(WATER IS SUPPLIED BY)	(	(HOLLAND LANDING)	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP HOLLAND LANDING PLANT	GROUND SOURCE CHEM TRTMT CHLORINATION	.504 (2.291)		MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
ELMVALE VILLAGE ELMVALE WELL SUPPLY	GROUND SOURCE	.630 (2.864)		MUNICIPALITY
ETOBICOKE BOROUGH ETOBICOKE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(METRO TORONTO W S S)	MUNICIPALITY
FENELON FALLS VILLAGE FENELON FALLS WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.825 (3.750)	CAMERON LAKE	MINISTRY
GEORGIAN BAY TOWNSHIP MAC TIER SUPPLY	SURFC SOURCE CHLORINATION	.060 (.273)	STEWART LAKE	MUNICIPALITY
GEORGINA TOWNSHIP SUTTON PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	1.000 (4.546)	LAKE SIMCOE	MUNICIPALITY
GRAVENHURST TOWN MUNICIPAL PLANT	SURFC SOURCE GROUND SOURCE CHEM TRTMT CHLORINATION	2.520 (11.456)	GULL LAKE	MUNICIPALITY
HALTON HILLS TOWN GEORGETOWN PLANT	GROUND SOURCE PHYSCL TRTMT CHLORINATION FLUORIDATION	6.800 (30.913)		MUNICIPALITY
HALTON HILLS TOWN ACTON SUPPLY	GROUND SOURCE CHLORINATION	2.100 (9.547)		MUNICIPALITY
HASTINGS VILLAGE HASTINGS SUPPLY	SURFC SOURCE CHLORINATION	.540 (2.455)	TRENT RIVER	MUNICIPALITY
HAVELOCK VILLAGE HAVELOCK WELL SUPPLY	GROUND SOURCE CHLORINATION	.216 (.982)		MUNICIPALITY
HUNTSVILLE TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.300 (5.910)	LAKE VERNON	MUNICIPALITY
KING TOWNSHIP NOBLETOWN SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.797 (3.623)		MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
KING TOWNSHIP KING CITY SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.800 (3.637)		MUNICIPALITY
KING TOWNSHIP SCHOMBERG SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.216 (.982)		MUNICIPALITY
LAKEFIELD VILLAGE LAKEFIELD WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.504 (2.291)	OTONABEE RIVER	MUNICIPALITY
LINDSAY TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	5.000 (22.730)	SCUGOG RIVER	MUNICIPALITY
MARA TOWNSHIP LAGOON CITY W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.880 (4.000)	LAKE SIMCOE	MINISTRY
MARKHAM TOWN UNIONVILLE SUPPLY	(WATER IS SUPPLIED BY) GROUND SOURCE CHEM TRTMT CHLORINATION	(	(METRO TORONTO W S S)	MUNICIPALITY
MARKHAM TOWN (NORTH OF JOHN ST. EAST OF BAYVIEW)	GROUND SOURCE PHYSCL TRTMT CHLORINATION	2.100 (9.547)		MUNICIPALITY
METRO TORONTO CITY SCARBOROUGH PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	30.000 (136.380)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY ISLAND PLANT (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	60.000 (272.760)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY WESTERLY PLANT(ETOBICOKE)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	100.000 (454.600)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY R C HARRIS PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	220.000 (1,000.120)	LAKE ONTARIO	MUNICIPALITY
MIDLAND TOWN MIDLAND SUPPLY	GROUND SOURCE CHLORINATION	3.280 (14.911)		MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
MILLBROOK VILLAGE MILLBROOK WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.020 (.091)		MINISTRY
MILTON TOWN MUNICIPAL PLANT	GROUND SOURCE	4.000 (18.184)		MUNICIPALITY
MISSISSAUGA CITY (DIRECT FILTRATION) SOUTH PEEL AREA W S S (LORNE PARK)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	50.000 (227.300)	LAKE ONTARIO	MINISTRY
MISSISSAUGA CITY SOUTH PEEL AREA W S S (LAKEVIEW)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	75.000 (340.950)	LAKE ONTARIO	MINISTRY
MUSKOKA LAKES TOWNSHIP BALA SUPPLY	SURFC SOURCE CHLORINATION	.446 (2.028)	LAKE MUSKOKA	MUNICIPALITY
MUSKOKA LAKES TOWNSHIP PORT CARLING SUPPLY	SURFC SOURCE CHLORINATION	.300 (1.364)	INDIAN RIVER	MUNICIPALITY
NEWCASTLE TOWN NEWCASTLE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.800 (3.637)	LAKE ONTARIO	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT ONE	GROUND SOURCE CHLORINATION	.350 (1.591)		MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT 2 (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.000 (9.092)	LAKE ONTARIO	MUNICIPALITY
NEWCASTLE TOWN ORONO WWKS	GROUND SOURCE	.252 (1.146)		MUNICIPALITY
NEWMARKET TOWN NEWMARKET/GWILLIMBURY HTS SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	3.650 (16.593)		MUNICIPALITY
NORTH YORK CITY NORTH YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	((	(METRO TORONTO W S S)	MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
NORWOOD VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE	.288 (1.309)		MUNICIPALITY
OAKVILLE TOWN (MULTI YEAR EXPANSION PROGRAM) MUNICIPAL PLANT (ULTIMATE CAPACITY 24.0 MIGD)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	18.000 (81.828)	LAKE ONTARIO	MUNICIPALITY
ORILLIA CITY ORILLIA PLANT	SURFC SOURCE PHYSCL TREATMENT GROUND SOURCE CHLORINATION	6.000 (27.276)	LAKE COUCHICHING	MUNICIPALITY
OSHAWA CITY MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	30.000 (136.380)	LAKE ONTARIO	MUNICIPALITY
PENETANGUISHENE TOWN MUNICIPAL SUPPLY	GROUND SOURCE	1.600 (7.274)		MUNICIPALITY
PERCY TOWNSHIP WARKWORTH POLICE VILLAGE PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.100 (.455)	MILL CREEK	MINISTRY
PETERBOROUGH CITY MUNICIPAL SUPPLY	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	21.000 (95.466)	OTONABEE RIVER	MUNICIPALITY
PICKERING TOWN PICKERING PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	5.500 (25.003)	LAKE ONTARIO	MUNICIPALITY
PORT HOPE TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	4.420 (20.093)	LAKE ONTARIO	MUNICIPALITY
PORT MCNICOLL VILLAGE PORT MCNICOLL SUPPLY	SURFC SOURCE CHLORINATION	.288 (1.309)	GEORGIAN BAY	MUNICIPALITY
RICHMOND HILL TOWN RICHMOND HILL (OAK RIDGES)	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.540 (2.455)		MUNICIPALITY
RICHMOND HILL TOWN RICHMOND HILL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO WSS)	MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
SCUGOG TOWNSHIP PORT PERRY SUPPLY	GROUND SOURCE	2.016 (9.165)		MUNICIPALITY
SMITH TOWNSHIP WOODLAND ACRES ETC. SUBDV'N SUPPLY	(WATER IS SUPPLIED BY)	(	(PETERBOROUGH W S S)	MINISTRY
STAYNER TOWN STAYNER WELL SUPPLY	GROUND SOURCE CHLORINATION	.860 (3.910)		MUNICIPALITY
TAY TOWNSHIP WAUBASHENE SUPPLY	SURFC SOURCE CHLORINATION	.300 (1.364)	GEORGIAN BAY	MUNICIPALITY
TAY TOWNSHIP SUNNYSIDE SUBDIVISION SUPPLY	GROUND SOURCE CHLORINATION	.330 (1.500)		MUNICIPALITY
TOTTENHAM VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION FLUORIDATION	1.660 (7.546)		MUNICIPALITY
UXBRIDGE TOWNSHIP UXBRIDGE SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.828 (3.764)		MUNICIPALITY
VAUGHAN TOWN VAUGHAN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
VAUGHAN TOWN MAPLE SUPPLY	GROUND SOURCE CHLORINATION	.490 (2.228)		MUNICIPALITY
VAUGHAN TOWN KLEINBURG SUPPLY	GROUND SOURCE CHLORINATION	.216 (.982)		MUNICIPALITY
VAUGHAN TOWN CARRVILLE SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.426 (6.483)		MUNICIPALITY
VAUGHAN TOWN CONCORD INDUSTRIAL AREA SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	2.180 (9.910)		MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
VAUGHAN TOWN TOWN WOODBRIGE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(METRO TORONTO WSS)	MUNICIPALITY
VICTORIA HARBOUR VILLAGE VICTORIA HARBOUR W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.432 (1.964)	GEORGIAN BAY	MINISTRY
WHITBY TOWN WHITBY PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	26.000 (118.196)	LAKE ONTARIO	MUNICIPALITY
WHITBY TOWN BROOKLIN SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.158 (.718)		MUNICIPALITY
WHITCHURCH-STOUFFVILLE TOWN STOUFFVILLE SUPPLY	GROUND SOURCE CHLORINATION	1.190 (5.410)		MUNICIPALITY
WOODVILLE VILLAGE WOODVILLE WELL	GROUND SOURCE CHLORINATION	.108 (.491)		MINISTRY
YORK BOROUGH YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(METRO TORONTO W S S)	MUNICIPALITY

CENTRAL REGION

Regional Municipalities

Regional Municipalities	Total Capacity (WATER TREATMENT)
DURHAM HALTON PEEL YORK METRO TORONTO DISTRICT MUNICIPALITY OF MUSKOKA	706.905 MIGD (3213.590 1000M^3)

REGIONAL MUNICIPALITY OF DURHAM

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
AJAX TOWN AJAX MUN PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	12.000 (54.552)	LAKE ONTARIO	MUNICIPALITY
BROCK TOWNSHIP SUNDERLAND PV SUPPLY	GROUND SOURCE	.468 (2.128)		MUNICIPALITY
BROCK TOWNSHIP BEAVERTON SUPPLY	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.740 (3.364)	LAKE SIMCOE	MUNICIPALITY
BROCK TOWNSHIP CANNINGTON SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.300 (1.364)		MUNICIPALITY
NEWCASTLE TOWN ORONO WWKS	GROUND SOURCE	.252 (1.146)		MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT 2 (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.000 (9.092)	LAKE ONTARIO	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT ONE	GROUND SOURCE CHLORINATION	.350 (1.591)		MUNICIPALITY
NEWCASTLE TOWN NEWCASTLE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.800 (3.637)	LAKE ONTARIO	MUNICIPALITY
OSHAWA CITY MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	30.000 (136.380)	LAKE ONTARIO	MUNICIPALITY
PICKERING TOWN PICKERING PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	5.500 (25.003)	LAKE ONTARIO	MUNICIPALITY
SCUGOG TOWNSHIP PORT PERRY SUPPLY	GROUND SOURCE	2.016 (9.165)		MUNICIPALITY

REGIONAL MUNICIPALITY OF DURHAM

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
UXBRIDGE TOWNSHIP UXBRIDGE SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.828 (3.764)		MUNICIPALITY
WHITBY TOWN BROOKLIN SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.158 (.718)		MUNICIPALITY
WHITBY TOWN WHITBY PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	26.000 (118.196)	LAKE ONTARIO	MUNICIPALITY
TOTAL CAPACITY		81.412 (370.099)		

REGIONAL MUNICIPALITY OF HALTON

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
BURLINGTON CITY MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	31.000 (140.926)	LAKE ONTARIO	MUNICIPALITY
HALTON HILLS TOWN GEORGETOWN PLANT	GROUND SOURCE PHYSCL TRTMT CHLORINATION FLUORIDATION	6.800 (30.913)		MUNICIPALITY
HALTON HILLS TOWN ACTON SUPPLY	GROUND SOURCE CHLORINATION	2.100 (9.547)		MUNICIPALITY
MILTON TOWN MUNICIPAL PLANT	GROUND SOURCE	4.000 18.184)		MUNICIPALITY
OAKVILLE TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	18.000 (81.828)	LAKE ONTARIO	MUNICIPALITY
TOTAL CAPACITY		61.900 (281.397)		

METROPOLITAN TORONTO

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
EAST YORK BOROUGH EAST YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
ETOBICOKE BOROUGH ETOBICOKE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
METRO TORONTO CITY SCARBOROUGH PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	30.000 (136.380)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY R C HARRIS PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	220.000 (1,000.120)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY WESTERLY PLANT(ETOBICOKE)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	100.000 (454.600)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY ISLAND PLANT (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	60.000 (272.760)	LAKE ONTARIO	MUNICIPALITY
NORTH YORK CITY NORTH YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
YORK BOROUGH YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
TOTAL CAPACITY		410.000 (1,863.860)		

DISTRICT MUNICIPALITY OF MUSKOKA

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
BRACEBRIDGE TOWN MUNICIPAL SUPPLY	SURFC SOURCE GROUND SOURCE CHLORINATION	1.850 (8.410)	LAKE MUSKOKA	MUNICIPALITY
GEORGIAN BAY TOWNSHIP MAC TIER SUPPLY	SURFC SOURCE CHLORINATION	.060 (.273)	STEWART LAKE	MUNICIPALITY
GRAVENHURST TOWN MUNICIPAL PLANT	SURFC SOURCE TREATMENT GROUND SOURCE CHEM TRTMT CHLORINATION	2.520 (11.456)	GULL LAKE	MUNICIPALITY
HUNTSVILLE TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.300 (5.910)	LAKE VERNON	MUNICIPALITY
MUSKOKA LAKES TOWNSHIP BALA SUPPLY	SURFC SOURCE CHLORINATION	.446 (2.028)	LAKE MUSKOKA	MUNICIPALITY
MUSKOKA LAKES TOWNSHIP PORT CARLING SUPPLY	SURFC SOURCE CHLORINATION	.300 (1.364)	INDIAN RIVER	MUNICIPALITY
TOTAL CAPACITY		6.476 (29.440)		

REGIONAL MUNICIPALITY OF PEEL

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
BRAMPTON CITY BRAMPTON SUPPLY	(WATER IS SUPPLIED BY)	(	(SOUTH PEEL AREA WSS)	MINISTRY
CALEDON TOWN BOLTON WWKS	GROUND SOURCE CHEM TRTMT CHLORINATION	1.440 (6.546)		MUNICIPALITY
CALEDON TOWN FOOTHILL FARM WWKS	GROUND SOURCE CHEM TRTMT CHLORINATION	.100 (.455)		MUNICIPALITY
CALEDON TOWN FARMERS LANE WWKS	GROUND SOURCE CHLORINATION	.036 (.164)		MUNICIPALITY
CALEDON TOWN PALGRAVE WWKS	GROUND SOURCE CHEM TRTMT CHLORINATION	.864 (3.928)		MUNICIPALITY
CALEDON TOWN MONO MILLS SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.230 (1.046)		MUNICIPALITY
CALEDON TOWN CALEDON HAMLET WWKS (HAWTHORNE ACRES)	GROUND SOURCE CHEM TRTMT CHLORINATION	.144 (.655)		MUNICIPALITY
CALEDON TOWN INGLEWOOD SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.054 (.245)		MUNICIPALITY
CALEDON TOWN CALEDON EAST WWKS	GROUND SOURCE CHEM TRTMT CHLORINATION	.400 (1.818)		MUNICIPALITY
MISSISSAUGA CITY SOUTH PEEL AREA W S S (LAKEVIEW)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	75.000 (340.950)	LAKE ONTARIO	MINISTRY
MISSISSAUGA (DIRECT FILTRATION) CITY SOUTH PEEL AREA W S S (LORNE PARK)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	50.000 (227.300)	LAKE ONTARIO	MINISTRY
TOTAL CAPACITY		128.268 (583.106)		

REGIONAL MUNICIPALITY OF YORK

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
AURORA TOWN MUNICIPAL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	3.740 (17.002)		MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP SHARON POLICE VILLAGE SUPPLY	(WATER IS SUPPLIED BY) (		(HOLLAND LANDING)	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP HOLLAND LANDING PLANT	GROUND SOURCE CHEM TRTMT CHLORINATION	.504 (2.291)		MUNICIPALITY
GEORGINA TOWNSHIP SUTTON PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	1.000 (4.546)	LAKE SIMCOE	MUNICIPALITY
KING TOWNSHIP KING CITY SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.800 (3.637)		MUNICIPALITY
KING TOWNSHIP SCHOMBERG SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.216 (.982)		MUNICIPALITY
KING TOWNSHIP NOBLETOWN SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.797 (3.623)		MUNICIPALITY
MARKHAM TOWN UNIONVILLE SUPPLY	(WATER IS SUPPLIED BY) GROUND SOURCE CHEM TRTMT CHLORINATION	(	(METRO TORONTO W S S)	MUNICIPALITY
MARKHAM TOWN (NORTH OF JOHN ST. EAST OF BAYVIEW)	GROUND SOURCE PHYSCL TRTMT CHLORINATION	2.100 (9.547)		MUNICIPALITY
NEWMARKET TOWN NEWMARKET/GWILLIMBURY HTS SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	3.650 (16.593)		MUNICIPALITY
RICHMOND HILL TOWN RICHMOND HILL (OAK RIDGES)	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.540 (2.455)		MUNICIPALITY

REGIONAL MUNICIPALITY OF YORK

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
RICHMOND HILL TOWN RICHMOND HILL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO WSS)	MUNICIPALITY
VAUGHAN TOWN KLEINBURG SUPPLY	GROUND SOURCE CHLORINATION	.216 (.982)		MUNICIPALITY
VAUGHAN TOWN CONCORD INDUSTRIAL AREA SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	2.180 (9.910)		MUNICIPALITY
VAUGHAN TOWN VAUGHAN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
VAUGHAN TOWN CARRVILLE SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.426 (6.483)		MUNICIPALITY
VAUGHAN TOWN MAPLE SUPPLY	GROUND SOURCE CHLORINATION	.490 (2.228)		MUNICIPALITY
VAUGHAN TOWN TOWN WOODBRIGE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO WSS)	MUNICIPALITY
WHITCHURCH-STOUFFVILLE TOWN STOUFFVILLE SUPPLY	GROUND SOURCE CHLORINATION	1.190 (5.410)		MUNICIPALITY
TOTAL CAPACITY		18.849 (85.688)		

CENTRAL REGION

Area Water Supply Systems

Total Area Water Supply Systems	Total Capacity
2	535.000 MIGD (2432.110 1000M^3)

AREA WATER SUPPLY SYSTEMS

SYSTEM: METROPOLITAN TORONTO WATER SUPPLY SYSTEM

Number of Plants: FOUR

Number of Municipalities Served: EIGHT

Operated By: METRO TORONTO DEPARTMENT OF WORKS

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
ETOBICOKE BOROUGH (Westerly Plant)	Coagulation Sedimentation Filtration Taste & Odour Control Fluoridation Chlorination	100.0 MIGD ($454.6\ 1000M^3$)	Borough of East York Etobicoke Borough Markham Town North York City Scarborough Borough Vaughan Town	Lake Ontario
SCARBOROUGH BOROUGH (Scarborough Plant)	Coagulation Sedimentation Filtration Taste & Odour Control Fluoridation Chlorination	30.0 MIGD ($136.4\ 1000M^3$)	Borough of East York Etobicoke Borough Markham Town North York City Scarborough Borough Toronto City Vaughan Town York Borough	Lake Ontario
TORONTO CITY (Island Plant)	Coagulation Sedimentation Filtration Taste & odour Control Chlorination	60.0 MIGD ($272.8\ 1000M^3$)	Borough of East York Etobicoke Borough North York City Scarborough Borough Toronto City Vaughan Town York Borough	Lake Ontario
TORONTO CITY (R.C. Harris Plant)	Coagulation Sedimentation Filtration Taste & Odour Control Fluoridation Chlorination	220.0 MIGD ($1000.12\ 1000M^3$)	Borough of East York Etobicoke Borough North York City Scarborough Borough Toronto City Vaughan Town York Borough	

SYSTEM: SOUTH PEEL WATER SUPPLY SYSTEM

Number of Plants: TWO Number of Municipalities Served: TWO

Operated By: MINISTRY OF ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
MISSISSAUGA (Lakeview Plant)	Screening Coagulation Sedimentation Filtration Taste & Odour Control Fluoridation Chlorination	75.0 MIGD (341.0 $1000M^3$)	Brampton Mississauga	Lake Ontario
MISSISSAUGA (Lorne Park Plant)	Screening Coagulation (DIRECT) ------- Filtration Taste & Odour Control Fluoridation Chlorination	50.0 MIGD (227.3 $1000M^3$)	Brampton Mississauga	Lake ONTARIO

Southeastern Region

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Ministry of the Environment

Ontario

REGIONAL OFFICE

KINGSTON
133 Dalton St.
613-549-4000

DISTRICT OFFICES

Belleville
15 Victoria Ave.
613-962-9208

Cornwall
4 Montreal Rd.
613-933-7402

Ottawa
2378 Holly Lane
613-521-3450

Pembroke
1000 MacKay St.
P.O. Box 67
613-732-3643

Southeastern Region

4

Ministry of the Environment

Ontario



REGIONAL OFFICE

KINGSTON
133 Dalton St.
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Belleville
15 Victoria Ave.
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Cornwall
4 Montreal Rd.
613-933-7402

Ottawa
2378 Holly Lane
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Pembroke
1000 MacKay St.
P.O. Box 67
613-732-3643

SOUTHEASTERN REGION SUMMARY

TREATMENT TYPE	<---------NUMBER---------->			<-------- ** CAPACITY MIGD ($1000M^3$) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	9	21	30	2.430	8.643	11.073 (50.338)
GROUND SOURCE PHYSCL TRTMT	0	2	2		.138	.138 (.627)
GROUND SOURCE CHEM TRTMT	2	0	2	.590		.590 (2.682)
SURFC SOURCE	1	14	15	.430	26.731	27.161 (123.474)
SURFC SOURCE PHYSCL TREATMT	1	3	4	.180	1.719	1.899 (8.633)
SURFC SOURCE PHYS & CHEM TRTMT	8	18	26	13.450	180.720	194.170 (882.697)
**** TOTALS ****	21	58	79	17.080 (77.646)	217.951 (990.805)	235.031 (1,068.451)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY

$1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:

1 MGD = 4.546 $1000M^3$

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ALEXANDRIA TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.140 (5.182)	ALEXANDER LAKE	MUNICIPALITY
ALFRED TOWNSHIP LEFAIVRE HAMLET SUPPLY	SURFC SOURCE CHLORINATION	.086 (.391)	OTTAWA RIVER	MUNICIPALITY
ALFRED VILLAGE ALFRED WELL SUPPLY	GROUND SOURCE CHLORINATION	.100 (.455)		MUNICIPALITY
ALMONTE TOWN ALMONTE WELL SUPPLY	GROUND SOURCE	1.180 (5.364)		MUNICIPALITY
AMELIASBURG TOWNSHIP FENWOOD GARDENS (SUBDV'N) WELL SUPPLY	GROUND SOURCE CHLORINATION	.070 (.318)		MUNICIPALITY
ARNPRIOR TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	3.400 (15.456)	MADAWASKA RIVER	MUNICIPALITY
BANCROFT VILLAGE BANCROFT WWKS	SURFC SOURCE CHLORINATION	1.000 (4.546)	CLARKE LAKE	MUNICIPALITY
BARRY'S BAY VILLAGE BARRY'S BAY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.550 (2.500)	KAMANISKEG LAKE	MINISTRY
BATH VILLAGE MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.840 (3.819)	LAKE ONTARIO	MUNICIPALITY
BEACHBURG VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE PHYSCL TRTMT	.090 (.409)		MUNICIPALITY
BELLEVILLE CITY BELLEVILLE WATER PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	12.000 (54.552)	BAY OF QUINTE	MUNICIPALITY
BROCKVILLE (DIRECT FILTRATION TO BE) CITY (INSTALLED IN 1980) MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	9.000 (40.914)	ST LAWRENCE RIVER	MUNICIPALITY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
CARDINAL VILLAGE CANADA STARCH- WATER SUPPLY	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.300 (1.364)	ST. LAWRENCE RIVER	MUNICIPALITY
CARLETON PLACE TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	5.000 (22.730)	MISSISSIPPI RIVER	MUNICIPALITY
CASSELMAN VILLAGE CASSLEMAN PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.700 (3.182)	S. NATION RIVER	MINISTRY
CHALK RIVER VILLAGE CHALK RIVER WWKS	SURFC SOURCE CHLORINATION	.430 (1.955)	CORRY LAKE	MINISTRY
CHESTERVILLE VILLAGE CHESTERVILLE W T P	GROUND SOURCE CHEM TRTMT CHLORINATION	.300 (1.364)		MINISTRY
CLARENCE TOWNSHIP ST PASCHAL BAYLON SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.048 (.218)		MUNICIPALITY
CLARENCE TOWNSHIP HAMMOND SUPPLY	GROUND SOURCE CHLORINATION	.184 (.836)		MUNICIPALITY
CLARENCE TOWNSHIP CLARENCE CREEK SUPPLY	GROUND SOURCE CHLORINATION	.080 (.364)		MUNICIPALITY
CLARENCE TOWNSHIP CHENEY SUPPLY	GROUND SOURCE CHLORINATION	.036 (.164)		MUNICIPALITY
CLARENCE TOWNSHIP BOURGET POLICE VILLAGE SUPPLY	GROUND SOURCE CHLORINATION	.172 (.782)		MUNICIPALITY
COBDEN VILLAGE COBDEN W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.300 (1.364)	MUSKRAT LAKE	MINISTRY
CORNWALL TOWNSHIP LONG SAULT HAMLET PLANT	SURFC SOURCE CHLORINATION	.500 (2.273)	LAKE ST LAWRENCE	MUNICIPALITY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (1000M3)	WATERCOURSE	OPERATED BY
CORNWALL CITY CORNWALL W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	22.000 (100.012)	LAKE ST LAWRENCE	MUNICIPALITY
CUMBERLAND TOWNSHIP CUMBERLAND TWP SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION		(OTTAWA W S S)	MUNICIPALITY
CUMBERLAND TOWNSHIP QUEENSWOOD SUBDIVISION PLANT	GROUND SOURCE CHLORINATION	.466 (2.118)		MUNICIPALITY
DEEP RIVER TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	3.100 (14.093)	OTTAWA RIVER	MUNICIPALITY
DELORO VILLAGE DELORO WELL SUPPLY	GROUND SOURCE CHLORINATION	.030 (.136)		MUNICIPALITY
DESERONTO TOWN DESERONTO W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.650 (2.955)	BAY OF QUINTE	MINISTRY
EGANVILLE VILLAGE EGANVILLE WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.180 (.818)	BONNECHERE RIVER	MINISTRY
ERNESTOWN TOWNSHIP ODESSA PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.450 (2.046)	MILLHAVEN CREEK	MINISTRY
ERNESTOWN TOWNSHIP AMHERSTVIEW PLANT	SURFC SOURCE CHLORINATION	2.400 (10.910)	LAKE ONTARIO	MUNICIPALITY
FRANKFORD VILLAGE FRANKFORD WELL SUPPLY	GROUND SOURCE CHLORINATION	.280 (1.273)		MINISTRY
GANANOQUE SEPARATED TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION	2.160 (9.819)	ST. LAWRENCE RIVER	MUNICIPALITY
GLOUCESTER POLICE VILLAGE ORLEANS POLICE VILLAGE SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION		(OTTAWA WSS)	MUNICIPALITY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
GLOUCESTER TOWNSHIP GLOUCESTER TWP. SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION		(OTTAWA W S S)	MUNICIPALITY
GOULBOURN TOWNSHIP GOULBOURN TWP. SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(OTTAWA W S S)	MUNICIPALITY
HAWKESBURY TOWN HAWKESBURY W T P TUBE SETTLERS	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	4.000 (18.184)	OTTAWA RIVER	MUNICIPALITY
IROQUOIS VILLAGE MUNICIPAL PLANT	SURFC SOURCE CHLORINATION	1.600 (7.274)	ST LAWRENCE RIVER	MUNICIPALITY
KANATA CITY GLENCAIRN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION		(OTTAWA W S S)	MUNICIPALITY
KANATA CITY KANATA SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION		(OTTAWA W S S)	MUNICIPALITY
KEMPTVILLE TOWN MUNICIPAL PLANT	GROUND SOURCE CHLORINATION	1.020 (4.637)		MUNICIPALITY
KINGSTON TOWNSHIP POINT PLEASANT PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	6.000 (27.276)	LAKE ONTARIO	MINISTRY
KINGSTON TOWNSHIP QUEEN'S ACRES PLANT	SURFC SOURCE CHLORINATION	.500 (2.273)	COLLINS BAY (L. ONTARIO)	MUNICIPALITY
KINGSTON TOWNSHIP WEST BROOK WELL SUPPLY	GROUND SOURCE CHLORINATION	.056 (.255)		MUNICIPALITY
KINGSTON CITY KINGSTON FILTRATION PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	21.000 (95.466)	LAKE ONTARIO	MUNICIPALITY
L'ORIGINAL VILLAGE L'ORIGINAL SUPPLY	GROUND SOURCE CHLORINATION	.150 (.682)		MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
LANCASTER VILLAGE LANCASTER SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.290 (1.318)		MINISTRY
LEEDS & LANSDOWNE,FRONT TOWNSHIP LANSDOWNE SUPPLY	GROUND SOURCE CHLORINATION	.320 (1.455)		MINISTRY
MADOC VILLAGE MUNICIPAL PLANT	GROUND SOURCE CHLORINATION	.330 (1.500)		MUNICIPALITY
MARMORA VILLAGE MARMORA WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.219 (.996)	CROWE RIVER	MUNICIPALITY
MERRICKVILLE VILLAGE MUNICIPAL PLANT	GROUND SOURCE CHLORINATION	.475 (2.159)		MINISTRY
MORRISBURG VILLAGE MUNICIPAL PLANT	SURFC SOURCE CHLORINATION	2.300 (10.456)	ST LAWRENCE RIVER	MUNICIPALITY
NAPANEE TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.800 (12.729)	NAPANEE RIVER	MUNICIPALITY
NEPEAN CITY LYNWOOD VILLAGE SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
NEPEAN CITY BARRHAVEN SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
NEPEAN CITY LAKEVIEW SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
NORTH PLANTAGENET TOWNSHIP WENDOVER POLICE VILLAGE PLANT	SURFC SOURCE CHLORINATION	.720 (3.273)	OTTAWA RIVER	MUNICIPALITY
OSNABRUCK TOWNSHIP INGLESIDE HAMLET PLANT	SURFC SOURCE CHLORINATION	1.800 (8.183)	ST LAWRENCE RIVER	MUNICIPALITY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
OTTAWA CITY OTTAWA WATER SUPPLY SYSTEM (LEMIEUX IS.)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	42.000 (190.932)	OTTAWA RIVER	MUNICIPALITY
OTTAWA CITY OTTAWA WATER SUPPLY SYSTEM (BRITANNIA)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	42.000 (190.932)	OTTAWA RIVER	MUNICIPALITY
PEMBROKE CITY PEMBROKE W T P	SURFC SOURCE CHLORINATION	6.200 (28.185)	OTTAWA RIVER	MUNICIPALITY
PERTH TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	2.000 (9.092)	TAY RIVER	MUNICIPALITY
PETAWAWA VILLAGE MUNICIPAL PLANT (DEPT NAT DEF)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	3.000 (13.638)	OTTAWA RIVER	MUNICIPALITY
PICTON TOWN PICTON W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	2.400 (10.910)	PICTON BAY (L. ONTARIO)	MUNICIPALITY
PITTSBURGH (SUPPLIES DND RMC BASE) TOWNSHIP PITTSBURG SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(KINGSTON CITY WSS)	MINISTRY
PITTSBURGH TOWNSHIP GLEN LAWRENCE WATER WORKS	SURFC SOURCE CHLORINATION	.015 (.068)	ST LAWRENCE RIVER	MUNICIPALITY
PITTSBURGH TOWNSHIP CANA SUBDIVISION PLANT	GROUND SOURCE CHLORINATION	.015 (.068)		MUNICIPALITY
PLANTAGENET VILLAGE PLANTAGENET SUPPLY	GROUND SOURCE CHLORINATION	.158 (.718)		MINISTRY
PRESCOTT SEPARATED TOWN PRESCOTT WATER PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	2.450 (11.138)	ST LAWRENCE RIVER	MUNICIPALITY
RENFREW TOWN RENFREW PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	4.000 (18.184)	BONNECHERE RIVER	MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
RIDEAU TOWNSHIP HILLSIDE GARDENS SUPPLY	GROUND SOURCE CHLORINATION	.117 (.532)		MUNICIPALITY
ROCKCLIFFE PARK VILLAGE ROCKCLIFFE PARK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION		(OTTAWA W S S)	MUNICIPALITY
ROCKLAND TOWN ROCKLAND WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.800 (3.637)	OTTAWA RIVER	MINISTRY
SIDNEY TOWNSHIP BATAWA PLANT	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	1.200 (5.455)	TRENT RIVER	MUNICIPALITY
SIDNEY TOWNSHIP QUINTE HEIGHTS (SUBDV'N)	GROUND SOURCE CHLORINATION	.070 (.318)		MUNICIPALITY
SIDNEY TOWNSHIP MONTROSE SUBDV'N (COUNTY CLUB VILLAGE)	GROUND SOURCE CHLORINATION	.300 (1.364)		MUNICIPALITY
SMITH FALLS SEPARATED TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	6.000 (27.276)	RIDEAU RIVER	MUNICIPALITY
ST.ISIDORE DE PRESCOTT VILLAGE ST ISIDORE DE PRESCOTT SUPPLY	GROUND SOURCE CHLORINATION	.047 (.214)		MUNICIPALITY
STIRLING VILLAGE STERLING WELL SUPPLY	GROUND SOURCE CHLORINATION	.580 (2.637)		MUNICIPALITY
THURLOW TOWNSHIP POINT ANNE HAMLET	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.040 (.182)	BAY OF QUINTE	MUNICIPALITY
TRENTON (NEW SUPPLY BEING STUDIED) TOWN SPRING SUPPLY	GROUND SOURCE CHLORINATION	3.300 (15.002)		MUNICIPALITY
TRENTON TOWN TRENTON W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	4.000 (18.184)	TRENT RIVER	MUNICIPALITY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
TWEED VILLAGE MUNICIPAL PLANT	GROUND SOURCE CHLORINATION	.440 (2.000)		MUNICIPALITY
VANIER CITY VANIER SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION		(OTTAWA W S S)	MUNICIPALITY
VANKLEEK HILL TOWN VANKLEEK HILL SUPPLY	GROUND SOURCE CHLORINATION	.300 (1.364)		MINISTRY
WELLINGTON VILLAGE WELLINGTON WWKS	GROUND SOURCE CHLORINATION	.160 (.727)		MINISTRY
WEST CARLETON TOWNSHIP HUNTLEY-JULIA SUBDIVISION SUPPLY	GROUND SOURCE CHLORINATION	.050 (.227)		MUNICIPALITY
WESTPORT VILLAGE WESTPORT WELL SUPPLY	GROUND SOURCE CHLORINATION	.187 (.850)		MINISTRY
WINCHESTER VILLAGE WINCHESTER SUPPLY	GROUND SOURCE CHLORINATION	.400 (1.818)		MINISTRY

SOUTHEASTERN REGION

Regional Municipalities

Regional Municipalities	Total Capacity
OTTAWA CARLETON	(WATER TREATMENT) 84.633 MIGD (384.742 1000M^3)

REGIONAL MUNICIPALITY OF OTTAWA-CARLETON

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CUMBERLAND TOWNSHIP QUEENSWOOD SUBDIVISION PLANT	GROUND SOURCE CHLORINATION	.466 (2.118)		MUNICIPALITY
CUMBERLAND TOWNSHIP CUMBERLAND TWP SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
GLOUCESTER POLICE VILLAGE ORLEANS POLICE VILLAGE SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA WSS)	MUNICIPALITY
GLOUCESTER TOWNSHIP GLOUCESTER TWP. SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
GOULBOURN TOWNSHIP GOULBOURN TWP. SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
KANATA CITY GLENCAIRN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
KANATA CITY KANATA SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
NEPEAN CITY LAKEVIEW SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
NEPEAN CITY LYNWOOD VILLAGE SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
NEPEAN CITY BARRHAVEN SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
OTTAWA CITY OTTAWA WATER SUPPLY SYSTEM (BRITANNIA)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	42.000 (190.932)	OTTAWA RIVER	MUNICIPALITY

REGIONAL MUNICIPALITY OF OTTAWA-CARLETON

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
OTTAWA CITY OTTAWA WATER SUPPLY SYSTEM (LEMIEUX IS.)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	42.000 (190.932)	OTTAWA RIVER	MUNICIPALITY
RIDEAU TOWNSHIP HILLSIDE GARDENS SUPPLY	GROUND SOURCE CHLORINATION	.117 (.532)		MUNICIPALITY
ROCKCLIFFE PARK VILLAGE ROCKCLIFFE PARK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
VANIER CITY VANIER SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
WEST CARLETON TOWNSHIP HUNTLEY-JULIA SUBDIVISION SUPPLY	GROUND SOURCE CHLORINATION	.050 (.227)		MUNICIPALITY
TOTAL CAPACITY		84.633 (384.742)		

SOUTHEASTERN REGION

Area Water Supply Systems

Total Area Water Supply Systems	Total Capacity (MIGD)
1	84.000 MIGD (381.800 1000M^3)

AREA WATER SUPPLY SYSTEMS

SYSTEM: OTTAWA WATER SUPPLY SYSTEM

Number of Plants: TWO

Number of Municipalities Served: EIGHT

Operated By: REGIONAL MUNICIPALITY OF OTTAWA CARLETON

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
OTTAWA CITY (Britannia Plant)	Screening Coagulation Sedimentation Filtration Taste & Odour Control Ph Adjustment Fluoridation Chlorination	42.0 MIGD ($190.9\ 1000M^3$)	Cumberland Twp. Gloucester Twp. Goulbourn Twp. KANATA CITY Nepean Twp. Ottawa City Rockcliff Park Village Vanier City	Ottawa River
OTTAWA CITY (Lemieux Island Plant)	Screening Coagulation Sedimentation Filtration Taste & Odour Control Ph Adjustment Fluoridation Chlorination	42.0 MIGD ($190.9\ 1000M^3$)	Cumberland Twp. Gloucester Twp. Goulbourn Twp. KANATA CITY Nepean Twp. Ottawa City Rockcliff Park Village Vanier City	Ottawa River

Northeastern Region

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Ontario

Ministry of the Environment

REGIONAL OFFICE

SUDBURY
199 Larch St.
705-675-4501

DISTRICT OFFICES

North Bay
1500 Fisher St.
705-476-1001

Sault Ste. Marie
445 Albert St. E.
705-949-4640

Timmins
83 Algonquin Blvd. W.
705-264-9474

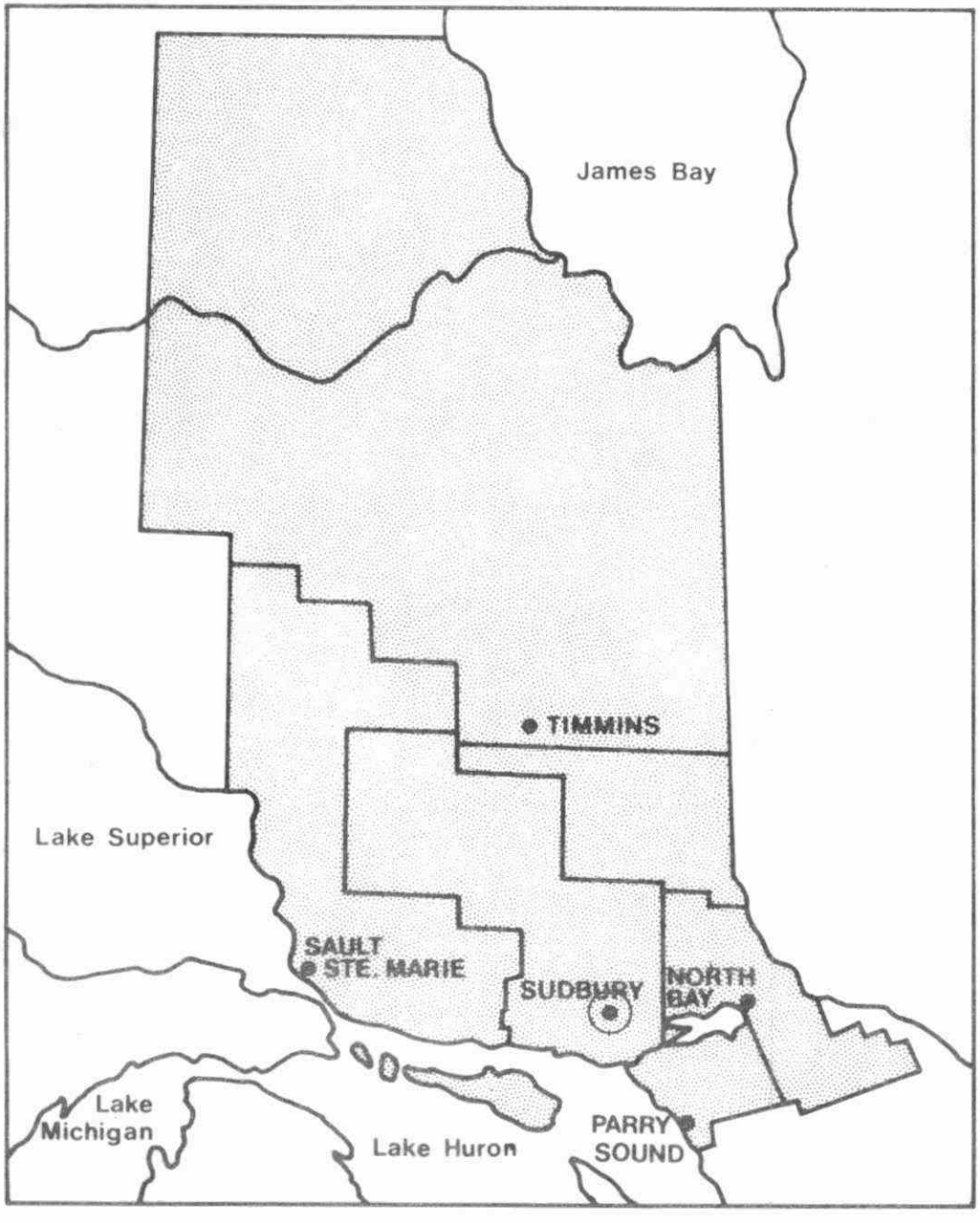
Parry Sound
74 Church St.
705-746-2139

Northeastern Region

5

Ministry of the Environment

Ontario



REGIONAL OFFICE

SUDBURY
199 Larch St.
705-675-4501

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North Bay
1500 Fisher St.
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NORTHEASTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD ($1000M^3$) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	2	19	21	.252	12.662	12.914 (58.707)
GROUND SOURCE PHYSCL TRTMT	2	3	5	.185	2.330	2.515 (11.433)
GROUND SOURCE CHEM TRTMT	2	1	3	3.950	2.160	6.110 (27.776)
GROUND SOURCE PHYS & CHEM TRTMT	0	1	1		1.350	1.350 (6.137)
SURFC SOURCE	10	20	30	5.401	71.785	77.186 (350.888)
SURFC SOURCE PHYSCL TREATMT	0	2	2		2.090	2.090 (9.501)
SURFC SOURCE CHEM TRTMT	1	1	2	2.460	2.160	4.620 (21.003)
SURFC SOURCE PHYS & CHEM TRTMT	10	6	16	8.786	33.358	42.144 (191.587)
**** TOTALS ****	27	53	80	21.034 (95.621)	127.895 (581.411)	148.929 (677.031)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:
1 MGD = 4.546 $1000M^3$

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ARMSTRONG TOWNSHIP EARLTON SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.070 (.318)		MUNICIPALITY
ASSIGINACK TOWNSHIP MANITOWANING	SURFC SOURCE CHLORINATION	.085 (.386)	MANITOWANING BAY	MINISTRY
BILLINGS TOWNSHIP KAGAWONG PLANT	SURFC SOURCE CHLORINATION	.015 (.068)	KAGAWONG LAKE	MUNICIPALITY
BLACK RIVER - MATHESON TOWNSHIP HOLTYRE PLANT	GROUND SOURCE CHLORINATION	.120 (.546)		MUNICIPALITY
BLACK RIVER-MATHESON TOWNSHIP RAMORE PLANT	GROUND SOURCE	.108 (.491)		MINISTRY
BLACK RIVER-MATHESON TOWNSHIP MATHESON PLANT	SURFC SOURCE CHLORINATION	.280 (1.273)	WHITEFISH LAKE	MINISTRY
BLIND RIVER TOWN BLIND RIVER WELL SUPPLY	GROUND SOURCE CHLORINATION	.785 (3.569)		MUNICIPALITY
BRUCE MINES TOWN BRUCE MINES SUPPLY	SURFC SOURCE CHLORINATION	.108 (.491)	L.HURON ST.JOSEPH'S CHNL	MINISTRY
BURK'S FALLS VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE	.245 (1.114)		MUNICIPALITY
CACHE BAY TOWN CACHE BAY WWKS	SURFC SOURCE CHLORINATION	.220 (1.000)	TANNER LAKE	MINISTRY
CALDWELL TOWNSHIP VERNER POLICE VILLAGE PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.233 (1.059)	VEUVE RIVER	MINISTRY
CAPREOL TOWN MUNICIPAL SUPPLY	GROUND SOURCE PHYSCL TRTMT	.640 (2.909)		MUNICIPALITY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
CHAPLEAU TOWNSHIP CHAPLEAU W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.140 (.636)	KEBESQUASING RIVER	MINISTRY
COBALT TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION	3.200 (14.547)	LAKE SASAGINAGA	MUNICIPALITY
COCHRANE TOWN COCHRANE WATER SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	1.350 (6.137)		MUNICIPALITY
DUBREUILVILLE UNORGANISED TWP DUBREUILVILLE WATER WORKS	GROUND SOURCE	.010 (.045)		MUNICIPALITY
DYMOND TOWNSHIP MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	1.008 (4.582)		MUNICIPALITY
ELLIOT LAKE TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	6.740 (30.640)	ELLIOT LAKE	MUNICIPALITY
ENGLEHART TOWN MUNICIPAL SUPPLY	GROUND SOURCE	.720 (3.273)		MUNICIPALITY
ESPANOLA TOWN ESPANOLA WTP	SURFC SOURCE CHLORINATION FLUORIDATION	1.500 (6.819)	ASPEY LAKE	MINISTRY
FAUQUIER TOWNSHIP MOONBEAM WTP	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.070 (.318)		MINISTRY
FOLEYET UNORGANISED TWP FOLEYET CNR SUPPLY	SURFC SOURCE CHLORINATION	.144 (.655)	IVANOE RIVER	C N R
GORE BAY TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION	.294 (1.337)	LAKE HURON	MUNICIPALITY
HAILEYBURY TOWN HAILEYBURY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.500 (6.819)	LAKE TIMISKAMING	MINISTRY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
HEARST TOWN HEARST W T P (OPER SWITCH IN 79)	SURFC SOURCE CHEM TREATMENT CHLORINATION	2.460 (11.183)	MATTAWISHKWIA RIVER	MINISTRY
HILTON BEACH VILLAGE MUNICIPAL PLANT	GROUND SOURCE	.010 (.045)		MUNICIPALITY
IROQUOIS FALLS TOWN ABITIBI PRICE PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	.900 (4.091)	ABITIBI RIVER	ABITIBI PRICE CO. LTD,
JACK AND NOBLE TOWNSHIP GOGAMA (CNR)	SURFC SOURCE CHLORINATION	.120 (.546)	MINISINAKWA LAKE	MINISTRY
JACK AND NOBLE TOWNSHIP GOGAMA (ONT. GOV'T SERVICES)	SURFC SOURCE CHLORINATION	.072 (.327)	MINISINAKWA LAKE	MINISTRY
KAPUSKASING TOWN MUNICIPAL PLANT	GROUND SOURCE CHEM TRTMT CHLORINATION	2.160 (9.819)		MUNICIPALITY
KIRKLAND LAKE TOWN KIRKLAND LAKE AND CHAPUT HUGHES PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	12.400 (56.370)	GULL LAKE	MUNICIPALITY
KIRKLAND LAKE TOWN SWASTIKA PLANT	SURFC SOURCE PHYSCL TREATMENT CHLORINATION FLUORIDATION	.360 (1.637)	BLANCHE RIVER	MUNICIPALITY
LARDER LAKE TOWNSHIP MUNICIPAL SUPPLY	GROUND SOURCE	.576 (2.618)		MUNICIPALITY
LATCHFORD TOWN LATCHFORD WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.144 (.655)	MONTREAL R	MINISTRY
LITTLE CURRENT TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION	.597 (2.714)	LAKE HURON	MUNICIPALITY
MASSEY TOWN MASSEY W T P	SURFC SOURCE CHLORINATION	.350 (1.591)	AUX SABLE RIVER	MUNICIPALITY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
MATACHEWAN IMPROVEMENT DISTRICT MUNICIPAL PLANT	GROUND SOURCE CHLORINATION	.040 (.182)		MUNICIPALITY
MATTAWA TOWN MUNICIPAL PLANT	GROUND SOURCE	1.080 (4.910)		MUNICIPALITY
MCDOUGALL TOWNSHIP NOBEL HAMLET SUPPLY	GROUND SOURCE	.144 (.655)		MUNICIPALITY
MCDOUGALL TOWNSHIP CIL PLANT	SURFC SOURCE CHLORINATION	3.300 (15.002)	GEORGIAN BAY	MUNICIPALITY
MCGARRY TOWNSHIP VIRGINIATOWN AND KEARNS MUNICIPL SUPPLY	SURFC SOURCE CHLORINATION	.864 (3.928)	LARDER LAKE	MUNICIPALITY
MICHIPICOTEN TWP TOWNSHIP MICHIPICOTEN TWP WWKT	SURFC SOURCE CHLORINATION	2.440 (11.092)	WAWA LAKE	MINISTRY
MISSANABIE UNORGANISED TWP MISSANABIE WATER WORKS (AUSTIN LUMBER)	SURFC SOURCE CHLORINATION	.010 (.045)	DOG LAKE	MUNICIPALITY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSONEE NORTH W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	.144 (.655)	BUTLER CREEK	MINISTRY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSONEE W T P (OLD TOWNSITE)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	.150 (.682)	STORE CREEK	MINISTRY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSE FACTORY W T P (ENV CAN)(ISLAND)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	.070 (.318)	MOOSE RIVER	FEDRAL GOV'T
NEW LISKEARD TOWN NEW LISKEARD SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	1.620 (7.365)		MUNICIPALITY
NICKEL CENTRE TOWN FALCONBRIDGE TOWNSITE SUPPLY	GROUND SOURCE CHLORINATION	3.280 (14.911)		MUNICIPALITY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
NICKEL CENTRE TOWN GARSON SUPPLY	GROUND SOURCE	1.900 (8.637)		MUNICIPALITY
NORTH SHORE UNORGANISED TWP MITCHELL WATER PLANT (SHEDDEN TWP)	SURFC SOURCE CHLORINATION	.500 (2.273)	SHEDDEN LAKE	MUNICIPALITY
NORTH SHORE UNORGANISED TWP CLEMENTS SUPPLY	(WATER IS SUPPLIED BY)	(	(SPANISH HOLDINGS)	MUNICIPALITY
NORTH SHORE UNORGANISED TWP WEATHERLY WATER PLANT (SHEDDEN TWP)	GROUND SOURCE	.010 (.045)		MUNICIPALITY
NORTH BAY CITY MUNICIPAL PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	22.000 (100.012)	TROUT LAKE	MUNICIPALITY
NORTH HIMSWORTH TOWNSHIP CALLANDER WELL	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.115 (.523)		MINISTRY
NORTH SHORE UNORGANISED TWP SERPENT RIVER SUPPLY (LEWIS TWP)	SURFC SOURCE CHLORINATION	.100 (.455)	SERPENT RIVER	MUNICIPALITY
ONAPING FALLS TOWN LEVACK SUPPLY (INCO)	SURFC SOURCE CHEM TREATMENT GROUND SOURCE CHEM TRTMT	2.160 (9.819)	ONAPING RIVER	MUNICIPALITY
ONAPING FALLS TOWN ONAPING SUPPLY (FALCONBRIDGE)	GROUND SOURCE CHLORINATION	1.150 (5.228)		MUNICIPALITY
PARRY SOUND TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	2.000 (9.092)	GEORGIAN BAY	MUNICIPALITY
PENTLAND (TWP) UNORGANISED TWP KIOSK HAMLEL SUPPLY (U.O.P)	SURFC SOURCE CHLORINATION	.576 (2.618)	AMABLE DU FOND CREEK	MUNICIPALITY
PINARD TOWNSHIP FRASERDALE (ONT. HYDRO)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.072 (.327)	ABITIBI RIVER	ONT. HYDRO

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
POITRAS TOWNSHIP THORNE HAMLET SUPPLY	SURFC SOURCE CHLORINATION	.576 (2.618)	MC DOUGALL CREEK	MUNICIPALITY
POWASSAN TOWN MUNICIPAL SUPPLY	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.288 (1.309)	GENESEE CREEK	MUNICIPALITY
RATTER & DUNNETT TOWNSHIP WARREN HAMLET SUPPLY	GROUND SOURCE	.144 (.655)		MINISTRY
RAYSIDE BALFOUR TOWN RAYSIDE BALFOUR SUPPLY	(WATER IS SUPPLIED BY)	(	(BLEZARD VALLEY W S S)	MINISTRY
SAULT STE MARIE CITY MUNICIPAL PLANT	SURFC SOURCE → (11.0 MIGD) GROUND SOURCE → (5.0 MIGD) CHLORINATION	16.000 (72.736)	ST. MARY'S RIVER	MUNICIPALITY
SHACKLETON AND MACHIN TOWNSHIP FAUQUIER PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.083 (.377)	GROUNDHOG RIVER	MINISTRY
SHEDDEN UNORGANISED TWP SPANISH PLANT	GROUND SOURCE	.070 (.318)		MUNICIPALITY
SMOOTH ROCK FALLS TOWN SMOOTH ROCK FALLS (ABITIBI WTP)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	4.170 (18.957)	MATTAGAMI RIVER	ABITIBI PRICE CO. LTD.
SOUTH RIVER VILLAGE MUNICIPAL SUPPLY	GROUND SOURCE CHLORINATION	.240 (1.091)		MUNICIPALITY
STURGEON FALLS TOWN MUNICIPAL PLANT	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	1.730 (7.865)	STURGEON RIVER	MUNICIPALITY
SUDBURY CITY WANAPITEI WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	6.250 (28.413)	WANAPITEI RIVER	MINISTRY
SUDBURY CITY COPPER CLIFF/INCO-VERMILION	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	10.000 (45.460)	VERMILION RIVER	MUNICIPALITY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
SUDBURY CITY MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	12.000 (54.552)	RAMSEY LAKE	MUNICIPALITY
TEMAGAMI TOWNSHIP NEW TOWNSITE PLANT	SURFC SOURCE CHLORINATION	.245 (1.114)	NET LAKE	MUNICIPALITY
TEMAGAMI TOWNSHIP OLD TOWNSITE PLANT	SURFC SOURCE CHLORINATION	.288 (1.309)	LAKE TEMAGAMI	MUNICIPALITY
THESSALON TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION	1.730 (7.865)	LAKE HURON	MUNICIPALITY
TIMMINS CITY MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	6.000 (27.276)	MATTAGAMI RIVER	MUNICIPALITY
TIMMINS CITY MOUNTJOY SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION	(	(TIMMINS MUNICIPAL PLANT	MUNICIPALITY
TIMMINS CITY SOUTH PORCUPINE PLANT	GROUND SOURCE CHLORINATION FLUORIDATION	1.000 (4.546)		MUNICIPALITY
TIMMINS CITY SCHUMACHER SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(TIMMINS MUNICIPAL PLANT	MUNICIPALITY
TIMMINS CITY PORCUPINE AND POTTSVILLE PLANT	GROUND SOURCE CHLORINATION	.274 (1.246)		MUNICIPALITY
VALLEY E/RAYSIDE-BALFOUR TOWN BLEZARD VALLEY WSS	GROUND SOURCE CHEM TRTMT CHLORINATION	3.300 (15.002)		MINISTRY
WALDEN TOWN LIVELY SUPPLY	(WATER IS SUPPLIED BY)	(	(COPPER CLIFF/INCO PLANT	MUNICIPALITY
WALDEN TOWN CREIGHTON SUPPLY	(WATER IS SUPPLIED BY)	(	(COPPER CLIFF/INCO PLANT	MUNICIPALITY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
WHITE RIVER IMPROVEMENT DISTRICT WHITE RIVER W T P	SURFC SOURCE CHLORINATION	.432 (1.964)	LITTLE TUKANEE LAKE	MINISTRY
WICKSTEED TOWNSHIP HORNEYPAYNE PLANT	GROUND SOURCE CHEM TRTMT CHLORINATION FLUORIDATION	.650 (2.955)		MINISTRY

NORTHEASTERN REGION

Regional Municipalities

Regional Municipalities	Total Capacity
SUDBURY	(WATER TREATMENT) 40.820 MIGD (185.568 $1000M^3$)

REGIONAL MUNICIPALITY OF SUDBURY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
CAPREOL TOWN MUNICIPAL SUPPLY	GROUND SOURCE PHYSCL TRTMT	.640 (2.909)		MUNICIPALITY
CHAPLEAU TOWNSHIP CHAPLEAU W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.140 (.636)	KEBESQUASING RIVER	MINISTRY
NICKEL CENTRE TOWN FALCONBRIDGE TOWNSITE SUPPLY	GROUND SOURCE TREATMENT CHLORINATION	3.280 (14.911)		MUNICIPALITY
NICKEL CENTRE TOWN GARSON SUPPLY	GROUND SOURCE	1.900 (8.637)		MUNICIPALITY
ONAPING FALLS TOWN ONAPING SUPPLY (FALCONBRIDGE)	GROUND SOURCE TREATMENT CHLORINATION	1.150 (5.228)		MUNICIPALITY
ONAPING FALLS TOWN LEVACK SUPPLY (INCO)	SURFC SOURCE CHEM TREATMENT GROUND SOURCE CHEM TRTMT	2.160 (9.819)	ONAPING RIVER	MUNICIPALITY
RAYSIDE BALFOUR TOWN RAYSIDE BALFOUR SUPPLY	(WATER IS SUPPLIED BY) (		(BLEZARD VALLEY W S S)	MINISTRY
SUDBURY CITY WANAPITEI WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	6.250 (28.413)	WANAPITEI RIVER	MINISTRY
SUDBURY CITY COPPER CLIFF/INCO-VERMILION	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	10.000 (45.460)	VERMILION RIVER	MUNICIPALITY
SUDBURY CITY MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	12.000 (54.552)	RAMSEY LAKE	MUNICIPALITY
VALLEY E/RAYSIDE-BALFOUR TOWN BLEZARD VALLEY WSS	GROUND SOURCE CHEM TRTMT CHLORINATION	3.300 (15.002)		MINISTRY

REGIONAL MUNICIPALITY OF SUDBURY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
WALDEN TOWN LIVELY SUPPLY	(WATER IS SUPPLIED BY)	(	(COPPER CLIFF/INCO PLANT	MUNICIPALITY
WALDEN TOWN CREIGHTON SUPPLY	(WATER IS SUPPLIED BY)	(	(COPPER CLIFF/INCO PLANT	MUNICIPALITY
TOTAL CAPACITY		40.820 (185.568)		

Northwestern Region
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Ontario
Ministry of the Environment

REGIONAL OFFICE
THUNDER BAY
435 James St. S.
P.O. Box 5000
807-475-1205

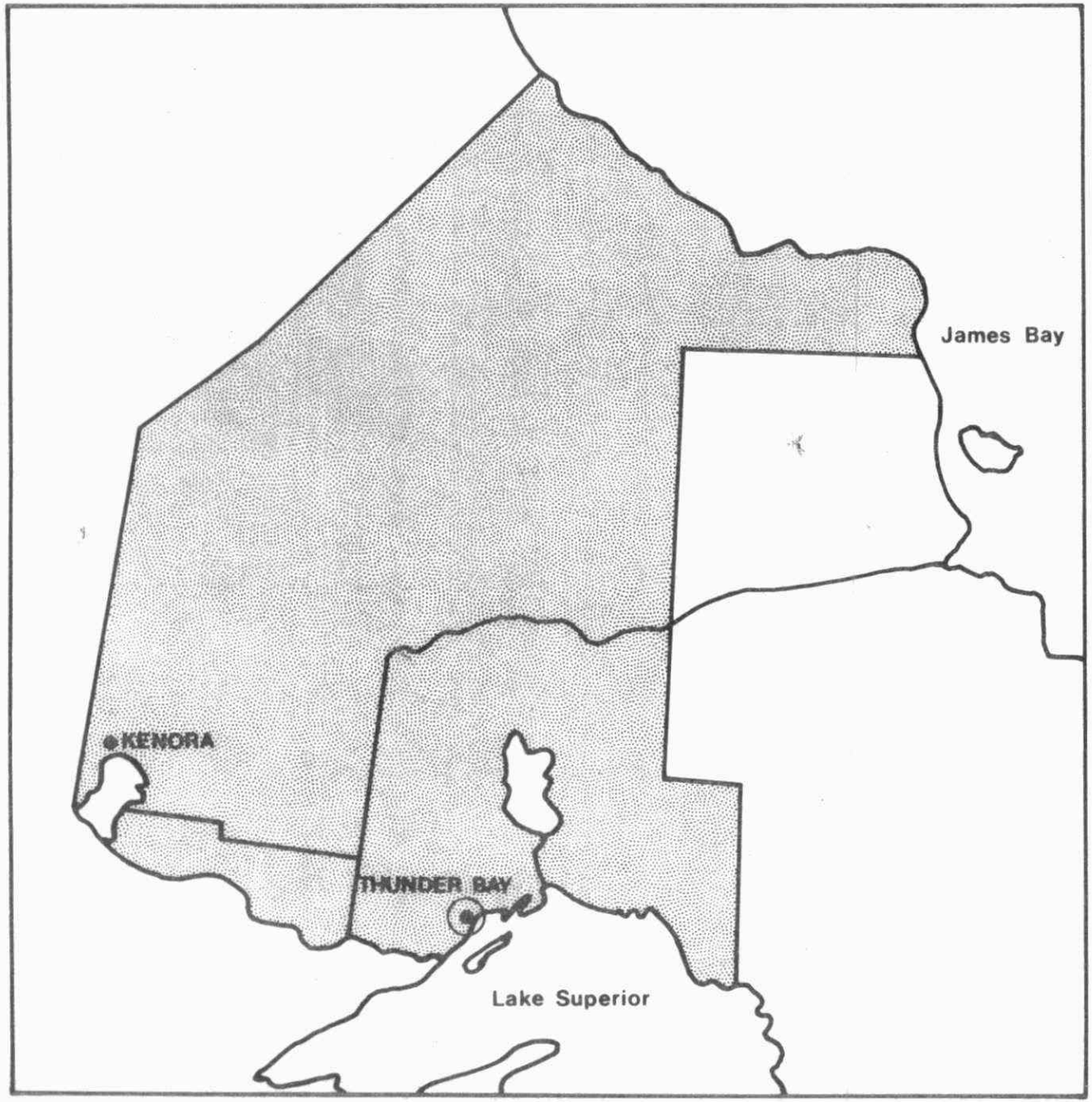
DISTRICT OFFICE
Kenora
808 Robertson St.
807-468-5578

Northwestern Region

6

Ministry of the Environment

Ontario



REGIONAL OFFICE
THUNDER BAY
435 James St. S.
P.O. Box 5000
807-475-1205

DISTRICT OFFICE
Kenora
808 Robertson St.
807-468-5578

NORTHEASTERN REGION

Area Water Supply Systems

Total Area Water Supply Systems	Total Capacity
1	3,300 MIGD (15,000 $1000M^3$)

AREA WATER SUPPLY SYSTEMS

SYSTEM: BLEZARD VALLEY WATER SUPPLY SYSTEM

Number of Plants: ONE (SIX WELLS) Number of Municipalities Served: TWO
Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
VALLEY EAST TOWN	Screening Chlorination	3.3 MIGD (15.0 1000M^3)	Valley East Town Rayside-Balfour Town	Ground (six wells)

NORTHWESTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD ($1000M^3$) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	2	1	3	1.800	1.332	3.132 (14.238)
GROUND SOURCE PHYSCL TRTMT	0	1	1		2.304	2.304 (10.474)
GROUND SOURCE CHEM TRTMT	1	0	1	1.200		1.200 (5.455)
SURFC SOURCE	3	9	12	1.300	62.360	63.660 (289.398)
SURFC SOURCE PHYSCL TREATMT	0	1	1		.414	.414 (1.882)
SURFC SOURCE PHYS & CHEM TRTMT	4	6	10	2.960	21.501	24.461 (111.200)
**** TOTALS ****	10	18	28	7.260 (33.004)	87.911 (399.643)	95.171 (432.647)

** MIGD = MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$ = THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:
1 MGD = 4.546 $1000M^3$

NORTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (1000M^3)	WATERCOURSE	OPERATED BY
ATIKOKAN TOWNSHIP MUNICIPAL PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	3.100 (14.093)	ATIKOKAN RIVER	MUNICIPALITY
BAIRD TOWNSHIP MADSEN COMMUNITY SUPPLY	SURFC SOURCE CHLORINATION	.600 (2.728)	RED LAKE	MINISTRY
BALMERTOWN IMPROVEMENT DISTRICT COCHENOUR TOWNSITE PLANT	SURFC SOURCE CHLORINATION	1.730 (7.865)	BRUCE CHANNEL (RED LAKE)	MUNICIPALITY
BALMERTOWN IMPROVEMENT DISTRICT BALMERTOWN TOWNSITE PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	2.600 (11.820)	SANDY BAY (RED LAKE)	MUNICIPALITY
BEARDMORE TOWNSHIP BEARDMORE W T P(NEW IN MAR 78)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.550 (2.500)	BLACKWATER RIVER	MINISTRY
CARAMAT UNORGANISED TWP MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.144 (.655)	CARAMAT LAKE	MUNICIPALITY
DRYDEN TOWN MUNICIPAL PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	3.000 (13.638)	WABIGOON LAKE	MUNICIPALITY
EAR FALLS TOWNSHIP EAR FALLS WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.000 (4.546)	ENGLISH RIVER	MINISTRY
EMO TWP TOWNSHIP EMO TWP WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.090 (.409)	RAINY RIVER	MINISTRY
FORT FRANCES TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	3.500 (15.911)	RAINY LAKE	MUNICIPALITY
GERALDTON TOWN GERALDTON W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.320 (6.001)	CECILE LAKE	MINISTRY
IGNACE TOWNSHIP IGNACE TOWNSITE SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.200 (5.455)		MINISTRY

NORTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
KENORA TOWN KENORA (MAIN PLANT) (NEW PLANT IN 1979)	SURFC SOURCE CHLORINATION FLUORIDATION	5.850 (26.594)	LAKE OF THE WOODS	MUNICIPALITY
LONGLAC TOWNSHIP LONGLAC W T P (EXPAND TO 1.4MG IN 79)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.600 (7.274)	LONG LAKE	MUNICIPALITY
MACHIN TOWNSHIP VERMILLION BAY	SURFC SOURCE CHLORINATION	.300 (1.364)	EAGLE LAKE	MINISTRY
MANITOUWADGE TOWNSHIP MUNICIPAL SUPPLY	GROUND SOURCE PHYSCL TRTMT	2.304 (10.474)		MUNICIPALITY
MARATHON TOWNSHIP MUNICIPAL SUPPLY	GROUND SOURCE	1.332 (6.055)		MUNICIPALITY
NAKINA IMPROVEMENT DISTRICT NAKINA SUPPLY	GROUND SOURCE CHLORINATION	1.080 (4.910)		MINISTRY
NIPIGON TOWNSHIP NIPIGON W T P	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.414 (1.882)	NIPIGON RIVER	MUNICIPALITY
PICKLE LAKE IMPROVEMENT DISTRICT PICKLE LAKE WWKS	GROUND SOURCE CHLORINATION	.720 (3.273)		MINISTRY
RAINY RIVER TOWN RAINY RIVER WTP MOE SUPERVISED	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.537 (2.441)	RAINY RIVER	MUNICIPALITY
RED LAKE TOWNSHIP RED LAKE WWKS	SURFC SOURCE CHLORINATION	.400 (1.818)	SKOOKUM BAY (RED LAKE)	MINISTRY
RED ROCK IMPROVEMENT DISTRICT RED ROCK W T P (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	.720 (3.273)	NIPIGON BAY (L SUPERIOR	MUNICIPALITY
SCHREIBER TOWNSHIP MUNICIPAL SUPPLY	SURFC SOURCE CHLORINATION	.500 (2.273)	COOK'S LAKE	MUNICIPALITY

NORTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
SIOUX LOOKOUT TOWN MUNICIPAL PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	1.080 (4.910)	PELICAN LAKE	MUNICIPALITY
TERRACE BAY TOWNSHIP MUNICIPAL PLANT	SURFC SOURCE CHLORINATION	32.000 (145.472)	LAKE SUPERIOR	MUNICIPALITY
THUNDER BAY CITY BARE POINT W T P(TR PHY-CHEM IN 1979)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	15.500 (70.463)	THUNDER BAY (L SUPERIOR)	MUNICIPALITY
THUNDER BAY CITY LOCH LOMOND PLANT	SURFC SOURCE CHLORINATION	12.000 (54.552)	LOCH LOMOND LAKE	MUNICIPALITY

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