

**An Analysis of a Public-Private Sector-Partnership:
The Hamilton - Wentworth - Philips Utilities Management Corporation PPP**



Salim Loxely
A Report Prepared for the Canadian Union of Public Employees

September 1999

“Water privatisation is a rip-off, a steal, a plunder, a legalised mugging, piracy, licensed theft, a diabolical liberty, a huge scam, a cheat, a snatch, and a swindle.”

- Richard Freeman, Financial Times, 1996.

This report is an edited and revised version of a report released in January 1999 by John Anderson of McMaster University, entitled, *Privatizing Water Treatment: The Hamilton Experience*. Revisions and editing were undertaken by Salim Loxley under the supervision of Professor John Loxley of the Department of Economics, University of Manitoba.

TABLE OF CONTENTS

I.	SUMMARY OF FINDINGS.....	1
II.	INTRODUCTION.....	3
III.	THE GROWING TREND TOWARDS PUBLIC / PRIVATE PARTNERSHIPS.....	4
IV.	TYPES OF PUBLIC / PRIVATE PARTNERSHIPS	4
V.	THE PRIVATE SECTOR PARTNER	5
VI.	THE HAMILTON-WENTWORTH - PUMC PPP AGREEMENT.....	7
VII.	EVALUATING THE HAMILTON-WENTWORTH - PUMC PPP	9
	VII (1). EFFICIENCY AND COST SAVINGS.....	9
	VII (2). FINANCIAL RISK TRANSFER.....	11
	VII (3). ENVIRONMENTAL RISK AND QUALITY OF SERVICE	13
	VII (4). ISSUES OF ACCOUNTABILITY AND TRANSPARENCY	17
	VII (5). IMPACT ON WORKERS AND THE COMMUNITY	19
	VII (6). ECONOMIC DEVELOPMENT BENEFITS.....	22
VIII	WHAT’S IN IT FOR THE PRIVATE SECTOR?	23
IX	ETHICAL INVESTMENT CONCERNS	24
X.	CONCLUSIONS	25
XI	RECOMMENDATIONS	27
XII	FIGURE.....	29
XIII	APPENDIX A	30
XIII	BIBLIOGRAPHY	31

I. SUMMARY OF FINDINGS

WHAT IS IT ABOUT?

- Handing over the operation and maintenance of a publicly owned utility to a private company, Philip Utilities Management Corporation, owned 70% by Philip services and 30% by the Ontario Teachers Pension Plan board.

WHAT KIND OF PPP?

- An operations and maintenance service contract using publicly owned infrastructure.

THE CLAIMS:

- Cost savings
- Improved productivity through technological innovation
- Improved labour relations through successor rights, guarantees and bonuses for cost reductions
- Less political capital spending
- Maintenance of environmental standards
- Economic development promises and guarantees
- Risk transfer
- Proponents call the PPP “a model for re-inventing government and for competing in the new economy”

THE REALITY

- The contract was awarded to PUMC without being publicly tendered.
- PUMC receives the first \$1 million on any cost-savings with any extra savings being shared with the Regional Authority on a 60-40 % basis. Gross profits to PUMC are estimated to be \$4.8 million per year.
- PUMC's promised operational cost-savings involved reducing the number of employees by half since 1995. Short term guarantees were just that. Pressure is being put on remaining personnel to multitask.
- Innovation and capital improvements remain the responsibility of the Regional Authority but on the advice of PUMC which stands to gain from any operating efficiencies which might result.
- PUMC has claimed a share in cost-savings even when Hamilton-Wentworth Regional Authority initiated them.
- There have been serious environmental problems since PUMC took over, the cost of which has been borne by region.
- Risk transfer has been minimal.
- Senior bureaucrats who were involved in the decision to award the contract to PUMC have left the Hamilton - Wentworth Regional Authority to work for PUMC.
- Crucial information is not available to the public. For example, annual performance reviews have not been conducted since 1995, when PUMC failed abysmally.
- Philip has moved its head office to Hamilton but has otherwise not delivered on its extensive economic development promises.
- PUMC's parent company, Philip Service, has been so fragile that its performance guarantees of PUMC have meant little. In May 1999, PUMC was bought by Azurix Corp. and is now under foreign ownership and control.
- This project raises important ethical questions concerning how employee pension funds are invested.

II. INTRODUCTION

In December 1994, the Regional Municipality of Hamilton-Wentworth signed a ten year, \$180 million contract with a new, one year old, company, Philip Utilities Management Corporation (PUMC). The contract transferred responsibility for the operation, management and maintenance of the Region's water and sewage system to PUMC. When it was signed, the deal was the largest private-public partnership (PPP) agreement of this type in North America.

The PPP approach to doing business is gaining acceptance by governments around the world because of claims that it can deliver infrastructure and services more efficiently and at a lower cost than traditional methods. The trend toward PPPs is also very much a reflection of the fiscal policies which prevail in today's conservative political climate. However, while the proponents of PPPs are growing in number and are increasingly outspoken¹, this approach to the provision of public services and infrastructure is also attracting criticism from groups who feel that these projects fall far short of their stated claims and impose more costs than benefits.

Indeed, while it has been hailed as "a model for re-inventing government and for competing in the new economy", the Hamilton-Wentworth - PUMC arrangement has not been free of controversy. This paper will evaluate the Hamilton-Wentworth - PUMC arrangement in order to shed more light on the PPP approach used in its realization. Assessment of the PPP will be made on the basis of four criteria: 1) efficiency and cost savings; 2) financial risk transfer; 3) environmental risk and quality of service; 4) issues of accountability and transparency; 5) the impact of the project on workers and the community and 6) economic development benefits. Before presenting the Hamilton-Wentworth - PUMC case study, a brief outline describing the nature of PPP's will be presented below.

¹ The Canadian Council of Public Private Partnerships is a major advocate for PPP's in Canada

III. THE GROWING TREND TOWARDS PUBLIC / PRIVATE PARTNERSHIPS

Facing tighter budgets, public authorities at all levels, from federal and provincial governments, through to civic governments and schools boards, are increasingly looking toward partnerships with the private sector for the provision of infrastructure and services. There are strong pressures from the political-right to do so as a means of reducing the scope of government and opening up the public sector to private profit.²

The growing popularity of PPPs is unlikely to be a passing fad. One can expect to see more of them, in greater variety, as pressures on public budgets persist and as the private sector begins to appreciate more fully the prospects of making profits through this type of cooperation. It is important, therefore, that they are subject to close scrutiny so that a proper analysis can be made of their likely impact.

IV. TYPES OF PUBLIC / PRIVATE PARTNERSHIPS

Conceptually, one can envisage a continuum of possibilities in terms of private / public sector cooperation in services delivery. <See Figure 1>. At one extreme, the public can be fully responsible for all aspects of service delivery or infrastructure provision, while at the other, the private sector could assume these responsibilities. In between, there are varying degrees to which the private sector can be allowed to contribute to services or infrastructure. Ideally, the main goal of PPPs should be to capitalize on the strengths of both parties while minimizing their weaknesses, so that the partnership is mutually beneficial. The wide range of possible types of PPP indicate the perceived different strengths and weaknesses of the two sectors in different parts of the country though, of course, these perceptions are deeply political.

² Earlier this year, the Canadian Council for Public Private Partnerships published an inventory of over 300 major PPPs in Canada which are being implemented or seriously considered for implementation. Of these, many were in the transportation and waste-water / environment area, but the largest number- nearly one third- were in the broadly defined area of civic services or facilities; from arenas to museums from housing to schools, from civic halls to casinos, from fire fighting to police and correctional services. All levels of government and all provinces and Territories were represented.

Most archetypal PPP approaches have a number of variations which distinguish them. The Hamilton-Wentworth - PUMC PPP is an example of a **Management Contract**. This type of arrangement transfers the responsibility for the operation and maintenance of government-owned businesses to the private sector and can range from the performance of simple tasks to more sophisticated contracts such as the Hamilton-Wentworth - PUMC PPP.³ These generally introduce incentives for increasing efficiency and assign remuneration on the basis of meeting specific performance targets.⁴ Ownership of the assets remains with the public sector.

According to a World Bank Tool Kit on PPPs, “Management Contracts are most likely to be useful where the main objective is to rapidly enhance a utility’s technical capacity and its efficiency in performing specific tasks, or to prepare for greater private involvement”.⁵ In such PPP arrangements, the government generally remains responsible for any future investments and assumes most of the attendant commercial risks involved in the project.

V. **THE PRIVATE SECTOR PARTNER**

Philip Utilities Management Corporation (PUMC) was established in 1994 following a merger of its parent company, Philip Services, with the Waste Water Technology Centre, a privatized federal research centre. The latter was headed by Stuart Smith, former leader of the Ontario Liberal Party, who went on to assume the Presidency of PUMC.

Philip Services has a 70% share in PUMC while the remaining 30% is held by the Ontario Teachers Pension Plan Board. The majority of its operations are centred within the Hamilton-Wentworth area which has a population of just under half a million people. In total, PUMC operates 14 municipal water treatment facilities and two industrial pre-treatment waste water facilities most of which are in the Hamilton-Wentworth area. The company also runs facilities in smaller cities such as Fort Frances, Thamesville, and Chalk River. Philip Utilities also owns Southwest Water, a utility in Texas. It owns the US engineering company, Philip Automation, Subsurface Utilities and is also involved in biosolids disposal or sludge

³ The World Bank, Toolkit 1: Selecting an Option for Private Sector Participation, Washington, 1998.

⁴ Ibid.

⁵ Ibid

management with such companies as Trimax, Envirogenics and Braemar Acres.⁶ PUMC has an asset base of some \$125 million according to Leo Gohier, Acting Commissioner Regional Environmental Department.⁷ However, at the time PUMC won the Hamilton contract it had absolutely no record of running any equivalent sized water facility.

PUMC'S major parent company, Philip Services, is based in Hamilton. It has 12,000 employees world-wide and had revenues of \$1.7 billion US in 1998 mainly from waste management and metals recovery. Philip companies also have the contract for blue box processing in the Region and collect garbage for Ancaster, Flamborough and Stoney Creek. It also runs the now infamous Taro landfill sites near Hamilton on which it was found to be dumping toxic sludge from Michigan and hazardous waste from Ontario. However, the company ran into serious financial difficulties in 1998 as a result of extensive borrowing in order to buy up a large number of companies across North America. Philip's debt rose to an estimated \$1.1 billion US and the company was unable to meet payments on this debt or put up an \$11.2 million guarantee required by the Ontario government for the operation of the Taro site.⁸

⁶ See <http://www.philiputilities.com/>

⁷ Leo Gohier, Status Report on the Public Private Partnership Between Philip Utilities Management Corporation and the Region of Hamilton Wentworth, Dec 9, 1998

⁸ In 1998, Philip announced \$346.2 million of write-downs, which cancelled its audited earnings for 1996 and 1997 and resulted in a net loss for 1997. In October 1998, a class action suit by shareholders was launched against Philip in Canada following one in the United States. Through a process which is still being negotiated, lenders are trying to force a restructuring of the company. In November 1998, Philip Services announced a 3rd quarter loss of some \$1 billion. In January 1999, Philip shares dropped to .42 cents on the Toronto Stock Exchange from a high of \$27 in September 1997. Trading has been halted on the New York Stock Exchange as lenders attempt to re-organize the company. Carl Icahn owns \$200 million of the debt and early in 1999 offered to buy \$500 million of debt at 50 cents on the dollar and take over the company. A consortium of banks including the CIBC, the Royal and the Banker's Trust holds some 40% of the Philip debt. Azurix Corp. stepped in after the Icahn offer was withdrawn.

In May, 1999, Philip Services sold its 68 per cent interest in Philip Utilities to Azurix Corp., an affiliate of Enron Corp. of Houston Texas for \$70 million.⁹

VI. THE HAMILTON-WENTWORTH - PUMC PPP AGREEMENT

The contract between the Regional Municipality of Hamilton-Wentworth and PUMC was initiated by way of an unsolicited proposal by PUMC and its President, Stuart Smith, former leader of the provincial Liberal Party. In arriving at its decision to engage in a deal with PUMC, the Regional Authority (RA) chose not to consult the general public.

The contract, dated December 30, 1994, was drawn up between The Regional Municipality of Hamilton-Wentworth, PUMC and Philip Services (under its previous name, Philip Environmental Inc.). It transferred the operation, management and maintenance of the RA's water and sewage plants to PUMC for a 10-year period. This gave PUMC control of the municipally-owned water treatment plant and three waste water treatment plants (Woodward the largest one, Dundas and Waterdown) as well as 129 pumping and outstations.

The contract stipulates that PUMC will be paid an annual fee of \$18.6 million which is based on the RA's previous budget for services. PUMC's actual compensation is \$17.9m, which is the fee less \$0.5 million of cost savings in water treatment to the RA and \$0.2 million for a contract administrator. The \$0.5 million figure was based on taking the RA's previous annual budget and then establishing a basic savings to the municipality.

PUMC's incentive is a monetary one. If the company generates additional cost savings, these will be shared on a 40 / 60 % ratio between the RA and PUMC respectively. After the savings reach 20% of the annual budget PUMC's rate rises to 80%. The company is also allowed to keep the first \$1 million in savings indexed to the CPI (Article 5). Further savings were also to be made by massive upgrading and automating of the system, with the RA promising to make investments of some \$40 - 45 million by 2002.¹⁰

⁹ See http://biz.yahoo.com/bw/990518/philip_serv_1.html 18 May, 1999.

¹⁰ Leo Gohier "What Did We Do?" at the "Forming Successful Public Private Partnerships" Toronto May 1997

PUMC agreed to keep all jobs for the first 18 months in addition to respecting successor rights legislation. It signed agreements with the two unions representing workers involved in the operation of the facilities, the International Union of Operating Engineers, which represented the majority of the workers (about 120) and CUPE, which represented about 5 people on the workforce. This protected other union agreements concerning salaries, wages and benefits. In addition, workers were offered an equal 10% share in expenditure reductions.

Employment opportunities were guaranteed by a commitment from PUMC's parent company, Philip Services, to create 100 new jobs somewhere in the RA over the next five years. PUMC promises to pay \$1 million, or \$10,000 for each job Philip does not create.

Finally, Philip Services, the parent company, guarantees the overall contract performance. However, according to Section 3:04, Philip is exempt from any liability if not meeting the contract is linked to such factors as:

- quality or quantity of the influent
- limits of the capacity of the facilities
- RA's failure to make capital, regulatory or emergency expenditures
- operating parameters of the outstations

VII. EVALUATING THE HAMILTON-WENTWORTH - PUMC PPP

In their own assessment of the benefits of PPP's, PUMC argues that privatization:

- creates an economical, cost-effective means of providing treatment services
- is the most cost-effective means of providing capital improvements to facilities
- allows access to financial resources
- allows access to new technologies
- creates operating efficiencies
- transfers risk / responsibility to the contractor
- enhances water quality and protects the environment
- fills the gap created by downsizing of government operations¹¹

The following section will attempt to determine the extent to which this list represents the reality of the Hamilton-Wentworth - PUMC PPP.

VII (1). EFFICIENCY AND COST SAVINGS

As mentioned above, PUMC is entitled to make \$1 million plus 60-80% of any cost savings. On the other hand, the municipality benefits from an initial payment of \$500,000 from PUMC plus 40-20% of any cost savings. Thus, the lion's share of any savings accrue to PUMC and increasingly so as time goes by.

¹¹ From PUMC web site <http://www.philiputilities.com/>

PPP advocates argue that the advantage of many PPP's is that the private sector takes care of borrowing requirements for the project. This is not the case in the Hamilton-Wentworth - PUMC PPP. In this particular PPP arrangement, the RA is responsible for all capital expenditures while PUMC is only obligated to cover costs relating to maintenance.¹² However, the contract contains an extraordinary clause which stipulates that the RA must take responsibility for any maintenance costs over and above the sum of \$10,000 per year.¹³

With respect to capital costs, Hamilton's waste water structure has not had a major renewal since the 1970's and is in need of major upgrading and automation of many operations.¹⁴ Given this fact, the contract stipulates that it will be the taxpayers who will ultimately provide the funding for any new capital and technological expenditures. PUMC, on the other hand will be able to take advantage of these increases in system efficiency, and, according to the PPP agreement, will be able claim the profits from running an upgraded system, for which taxpayers have paid.

This aspect of the contract is clearly a weakness and has already led to disagreements between the RA and PUMC. Indeed, in October 1995, annual savings of some \$2.5 million were realized as a result of a proposed energy transfer from the Region's solid waste incinerator to the sewage treatment plant. Philip layed claim to this amount but the RA disagreed, since the transfer of energy and with it, the accompanying cost savings, were a direct result of an \$8 million expenditure to make the transfer possible.¹⁵ Three months later, the RA closed down a sludge incinerator at a PUMC - run plant because it required \$10 million in repairs. PUMC began trucking the sludge to a landfill site saving \$60 a ton on a daily production of some 150 tons. Philip received 60% of the savings and the RA 40%!¹⁶

¹² The RA did attempt, albeit unsuccessfully, to privatize capital development for sewage treatment through a share offering with RBC Dominion Securities. The Province disallowed the scheme.

¹³ (Article 4:05 2)

¹⁴ Klaus Stolch, PUMC Manager of the Woodward Plant

¹⁵ Peters, Ken, "Region, Philip have \$25-million spat", The Hamilton Spectator, Oct 11/95

¹⁶ Poiling, Jim, "Sludge incinerator closing", The Hamilton Spectator, Jan 6/96

Financially, PUMC is not inspiring confidence given that it has been consistently late in filing its financial statements.¹⁷ Consequently, as of January 1999, the RA has not benefited from any further cost savings. Furthermore, according to Marvin Caplan, City councillor, PUMC has paid no taxes to the RA for a number of years.¹⁸ The sum is worth several hundred thousand dollars. While the RA receives audited financial statements from PUMC, these are not made public. As a result, neither elected officials nor the public have any financial measure of how their money, some \$18 million per year, is being used.

VII (2). FINANCIAL RISK TRANSFER

Risk, in the context of a capital project, is a situation of potential loss of investment resulting from operating in an uncertain business environment.¹⁹ Risk transfer is touted as one of the principal benefits of most PPPs because it allows one party to concentrate on those risks that it is better equipped to manage while passing off to another party those risks that it might not handle as well. In theory, the end result is supposed to be an increase in specialization and efficiency although this doesn't always follow.

There are a number of financial risks inherent in the operation and maintenance of a water utility. The more important ones of these include :

A) DESIGN RISK

This type of risk entails the costs and responsibilities that would accompany the design of a particular capital project. A faulty design can complicate or delay construction or prejudice ongoing operations and this usually has financial implications.

¹⁷ As of Nov 28, 1998 PUMC had not filed its 1997 financial statements. Buist, Steve, "The business of waste water treatment", The Hamilton Spectator, Nov 28, 1998 p.A4

¹⁸ Telephone interview Dec 29/98

¹⁹ The Harper Collins Dictionary of Economics, 1991.

B) CONSTRUCTION / IMPLEMENTATION RISKS

This category of risk generally involves additional costs related to the building and operating of a capital project such as equipment, labour, time delays and maintenance costs.

C) FINANCING AND OPERATING RISKS

Financing and operating risks can involve interest rate fluctuations and ownership liabilities as well as property and operating risks associated with inflation and / or maintenance costs.²⁰

With respect to design and construction risk it is clear that the RA bears the full burden of these risks. While PUMC is responsible for maintenance of the facility, this responsibility is one which is limited to a maximum value of \$10,000 per year. Thus, the RA bears a burden of risk vis a vis maintenance as well. Finally, given that the RA still owns the utilities and is responsible for arranging financing for any upgrades to these facilities, the RA, then, bears the finance risk.

The problem with PPP's is that private companies are inherently unstable. Indeed, changes in ownership and the performance of management and competition can damage or sink a private company at any time. Such companies are also open to foreign take-over. All these factors are magnified in the case of PUMC and expose the RA to potential risks.

Not only is the danger of instability present, but due to the major financial problems of PUMC's parent company, the situation (until the recent sale to Azurix) was even more unstable. Not a week went by without stories on the restructuring of the parent company and its financial problems appearing in the news, but the implications of any restructuring or bankruptcy for any of Philips' subsidiaries was quite unknown. Clearly, the RA faced new types of financial and operating risks from the instability of its private partner which it would not have faced had it continued to operate the utility itself.

²⁰ Government of New Brunswick, Department of Finance. Public-Private Partnerships: Guidelines and Protocols, Fredericton, 1999. P. 5.

VII (3). ENVIRONMENTAL RISK AND QUALITY OF SERVICE

While Philip Services, the parent company, has guaranteed the overall contract performance of PUMC, its list of exemptions from liability (see above) are considerable and fail to inspire confidence. Experience has also shown that they make it difficult to hold PUMC responsible for any important accident. Environmental risk has not, therefore, been shifted to the private sector partner.

Indeed, PUMC's service record to date has been very poor. In January 1996, a major spill occurred at the main pumping station at the sewage plant under Philip control. In this accident, the worst disaster ever to affect the system, 180 million litres of raw sewage were spilled into Hamilton harbour and surrounding areas. More than 115 houses and businesses were flooded in the Stoney Creek area. In September 1996, a report by Rand Rosell of the RA's' legal department said PUMC was responsible for the spill. Filer Consultants put the blame on mechanical and operational failure caused by PUMC not the RA.²¹

While Philip was held responsible by an outside consultant's report, the RA ultimately had to pay for all damages. The total compensation paid out by the RA has not been published but was likely a considerable sum of money. Remarkably, the Ministry of the Environment, said it would not sue because the damages were internal to homes and not external to the environment.²² PUMC later gave \$27,000 to the Bay Area Restoration Council as a partial means of repairing damage after the spill once the provincial government decided it could not win the case against PUMC.²³

The PUMC/Hamilton deal has also not resulted in any major improvements to the environmental situation of water and waste water in Hamilton. Instead under PUMC

²¹ Peters, Ken, "Sewage damage blamed on Philip", the Hamilton Spectator, Sept 6/96

²² A number of other spills have occurred since Philip took over including one at Henderson Hospital in, one at Dundas, one at Waterdown on September 15, 1998.

²³ Prokaska, Lee, "Dirty Money: Bay Area Restoration Council debates taking donations from polluters", The Hamilton Spectator, Feb, 1998

management many serious environmental problems have remained unsolved. PUMC has often failed to meet governmental or RAP (Remedial Action Plan) standards for discharges of effluent.

Drinking water and sewage discharge

While both the RA and the Ministry claim Hamilton drinking water meets all provincial standards, there have been no published documents analysing the testing done over the years to see how the quality varies. As a result one cannot decisively prove that Hamilton drinking water is any worse than in the past. Taste, however, appears to be a concern. At a meeting on January 12, the RA admitted as much by ordering a \$50,000 feasibility study to attempt to improve water quality in taste and odour.²⁴

Does the PUMC management of discharges contribute to this situation? One cannot but make the connection. Hamilton is one of the few cities in Canada with a single sewer system in which sewage and storm run-off flow through the same pipe. This runs into harbour and then Lake Ontario following treatment by PUMC at its waste water treatment plants. However, the reality is that an estimated 4.33 billion litres of untreated sewage flows into the harbour area each year²⁵. A large part of this untreated flow comes from PUMC administered operations. Even the treated effluent from these plants often falls below government standards.

Growing Levels of Ammonia

Hamilton Bay water contains high levels of phosphorous and ammonia which contribute to poor water quality. This has been documented by the Remedial Action Plan (RAP) and Bay Area Restoration Council (BARC) organizations.²⁶ According to Marilyn Baxter of the Bay Area Restoration Council, 80% of this contamination comes from the Woodward Avenue

²⁴ Leo Gohier, "Water Quality - Taste and Odour", Dec 15/98

²⁵ One of the major reasons for the contamination is that during intense wet, snow melts, or storm periods, the Hamilton system cannot handle the flow of waste water. The CSO (combined sewer overflows) holding tanks cannot handle the overflow either. In 1997 untreated sewage and run-off bypassed the plant entirely for 267 hours (more than 11 days). This sewage flowed directly into the harbour. This astounding figure was revealed for the first time at the January meeting of the Regional Environment Services Committee. In addition, some waste water is diverted once inside the plant system and does not receive the full plant treatment. This amounted to 0.1% of the total of Woodward Avenue flow. This has occurred both prior to and since 1997. McNeil, Mark, "Region's aging sewage system slowing harbour restoration", The Hamilton Spectator, Dec 6/97

²⁶ See RAP and BARC 1998 reports in Bibliography

Treatment Plant. According to the Remedial Action Plan, the Woodward Avenue Plant is not yet meeting RAP targets.

While the unmet targets for phosphorus seem within reach, the ammonia targets of 2,270 kg have been exceeded with actual readings of 5,000 kg per day and climbing. Ammonia is added to waste water during the treatment process and these levels have increased since privatization.²⁷

PUMC Does Not Meet Targets

PUMC's sewage treatment plants are subject to Certificates of Approval (Cof A) rates which are set by the province. They are also subject to baseline performance criteria (BPC) for effluent quality after treatment which are set by the RA and are contained in its contract with PUMC. The RA's BPC standards are superior to the provincial C of A ones.

In at least nine months, PUMC's average effluent quality exceeded the BPC. At the Woodward Plant, in at least one month in 1998 (October according to the RA) and perhaps more according to the Ministry of the Environment, these C of A minimum standards were not met in terms of effluent quality in Suspended Solids (SS). For total phosphorus content here again the average exceeded the BPC over almost four years. In at least 8 months these standards were surpassed considerably.

²⁷ 1998 Status Report September 1998, Remedial Action Plan for Hamilton Harbour 1998

For 1998 the average SS, and total Phosphorus effluent content exceeded the Baseline Performance Criteria but did meet the C of A limits for the year. C of A levels in SS were also exceeded twice at the Dundas plant in 1996 and three times in 1997.²⁸ As well, Dundas and Waterdown had high phosphorus levels in 1998.

Local 772 of the IUOE sent a letter to the Ministry of the Environment in November 1998 which noted that the Woodward Avenue Plant had been in violation of its Certificate of Approval for 4 months in 1997 and in October and possibly November of 1998. The Ministry declined to investigate, as it believes the plant is “working on the problem”.²⁹

Fixing the environment is not a short term issue, but private companies usually function with short term goals of profitability and these goals often result in flagrant disregard for the environment. For society, however, a healthy environment is worth the price even if it means incurring costs in the short term. Public services are much more able to make these kinds of choices than private companies. Some observers feel that PUMC is choosing to operate at a much higher level of risk of environmental problems in order to reduce costs and increase its profits and a major influence in its decision to act this way is that PUMC derives the bulk of the benefits of cost reduction (in effect ‘labour’ reduction!) While the RA bears any financial consequences of the increased risk of damage to the environment.

²⁸ *ibid*

²⁹ Buist, Steve, “N investigation at Woodward Avenue Plant”, The Hamilton Spectator, Nov 28/98, p.A4
 As if the environmental problems in PUMC operations are not enough, other Philip companies have also been contributing to the poor waste water situation. Philip Services also runs the Taro West Landfill site (now closed) which poured 430 million litres of leachate per year into the sewer system. This leachate contained toxic compounds like benzene and phenols. Philip paid a special surcharge to the RA for dumping directly into the sewer system. Since some of the chemicals in the leachate could not be treated by the Woodward Avenue Plant - into which they flowed - they were simply discharged directly into Hamilton Harbour. Taro contributed 1,000 tonnes out of 15,000 tonnes of calcium chloride dumped into the Bay via the Woodward Avenue Plant. In 1993, Philip had agreed to build a leachate pollution treatment plant for Taro for \$8.6 million but this was never done. Instead of the plant, Philip offered \$1 m to retrofit RA salters in a deal which it said would save the RA \$.5 million per year in wasted salt. The RA concluded it could make this change itself without Philip. The RA voted to end Philip’s special dumping rights practice on November 10, 1998. However it later gave Philip a four month extension until March 1999 meaning that the leachate could be continued to be dumped into the sewer system to that date.
 Lee Prokaska, “Council gives Taro 4 months to work out leachate deal”, The Hamilton Spectator, Nov 18/98 pA3

The experience of privatization of the operations of utilities shows us that an independent and strong regulatory body is needed. Thus, the CRTC is considered an essential body for regulating the communications sector in Canada. When the regulatory body is weak, as was the case with OFWAT, the water regulatory agency in Britain, or non-existent as is the case in Hamilton, the PPP process is even less sensitive to meeting public needs and less open to transparency and public accountability.

VII (4). ISSUES OF ACCOUNTABILITY AND TRANSPARENCY

Perhaps the most disturbing element of the Hamilton-Wentworth - PUMC PPP is its apparent lack of accountability to the public. Private companies are not required to be transparent about their financial situations and are, nevertheless, reticent to publish their financial or operational dealings which they see as a proprietary or competitive issues.

Indeed, in the case of the Hamilton-Wentworth - PUMC PPP the reporting criteria to the RA and the Ministry of Environment are very vague. When public operations are privatized, as is the case in Hamilton, the need for provincial regulation is even more essential. This, however, does not seem to have been recognized in Hamilton-Wentworth - PUMC PPP.³⁰ No quarterly or monthly reports are required although the Ministry revealed in an interview that spills must be reported immediately.³¹ Public reporting criteria is non-existent. The contract does not specify that Philip or the RA has to address the issue of public access to information. There are no clauses in the contract which mandate regular consultation with the public. The contract itself was awarded to PUMC without being tendered publically. This in itself was highly unusual and was justified because of the supposed economic development potential of the PUMC deal, which are discussed later.

³⁰ The Ministry of the Environment has lost some 1,000 employees out of 2,400 since 1995. Under these austere conditions one wonders whether or not the Ministry can perform its functions in an adequate manner.

³¹ John Percy, Ministry of the Environment interview January 1999

While the contract contains a requirement for an annual performance review (Article 17) there is no stipulation that this review should be made public. Instead, the 1995 review was only obtained by the IUOE under the *Freedom of Information Act* in the fall of 1998. In it, the RA

Contract Co-ordinator notes that, on most issues, PUMC's performance in the first year, on a scale of 1 to 4 is a '1'. In other words it is inadequate.

The municipal elections and Philip companies

Quebec long ago outlawed the practice of corporate donations at the provincial or municipal level. The practice of corporate donations opens the door to the potential for corruption or for the appearance of influence pedalling. The practice is even more dangerous when the donors are corporations involved in private public partnerships.

In the case of Hamilton, while PUMC itself has not been active, Philip has been a major contributor to candidates in the municipal elections. Philip ranked 10th in total contributions to candidates in 1994.³² Did contributions from Philip (ranging from \$250-500 or so) "buy off" candidates in the municipal elections? Arguably not. While this practice is perfectly legal in Ontario, it is nevertheless a disturbing one especially since the benefactors are striving to make

³² This information is publicly available from the Clerk's Office on the Second Floor of the City Hall. I gathered the 1997 figures and Don McLean the 1994 ones.

in-roads into the private provision of public services in Canada. Such practices are hostile to the fostering of a transparent democratic process.³³

Foreign ownership potential

Privatization also opens the road to foreign ownership and this too raises further questions of transparency and accountability. Philip Services' stock is traded on the New York Stock Exchange and is probably foreign owned to a large degree. CN Rail is an example of a privatised company where majority ownership now resides in the USA. This is an inevitable result for any widely traded private company. Philip started in Hamilton but sold shares on the international market. If a public service is privatized when the privatizer is foreign owned, the possibility exists that the ultimate decision making will no longer exist in the same country let alone the same town! (This was written before the takeover by Azurix Corp. Foreign ownership is now a reality!)

VII (5). IMPACT ON WORKERS AND THE COMMUNITY

The facilities were represented by two unions. The bulk of the employees, some 120, were members of the International Union of Operating Engineers which initially endorsed the project. CUPE represented 5 employees and was against the project from the very beginning. The agreement stipulated that Philip Services (not PUMC) would guarantee employment opportunities by creating 100 new jobs somewhere in the RA over five years. PUMC promised to pay \$1 million, or \$10,000 for each job Philip did not create. Furthermore, workers were offered an equal 10% share in any expenditure reductions.

There are only two major ways to bring about more efficiency in water treatment plants. The first way involves updating and upgrading the capital equipment. The second way involves downsizing the number of employees doing the same work. The cost of wages and benefits was

³³ Here is the total list for 1994

around \$6 million and salaries were about \$1.2 million. This amounts to about \$7 million of a total budget of \$18 million in 1995.

Obviously, by reducing this amount PUMC would stand to make a considerable profit on operations at a rate of 60 - 80% after \$1 million. Indeed, from September 1995, PUMC's attitude toward labour began to change. In April 1996 layoffs began. Philip cut some 60 of the 120 or so workers leaving 58 staff including management by the end of 1999. No CUPE members will remain beyond the end of 1999. There were also 19 vacant positions at the operations when PUMC took over. These positions were never filled.

The rosy view on which the privatization was sold to one of the unions was that there would be more advantages for workers in a large multinational, as it set out to conquer or at least compete in the North American water market. A more cynical viewpoint of the RA's handling

of this issue would say that the service was privatized in order for the RA to avoid having to do the cost-saving lay-offs associated with automation or pay decent lay-off compensation. PUMC is paying those laid-off workers the strict minimum of one week's pay for one year's work, for those with over five years seniority. In other words, workers bore the brunt of the savings cuts and have no job guarantees or decent severance packages in the agreement.

Philip's termination of 60 jobs is in keeping with the practises of other private companies in the water sector. In England and Wales, in the 10 privatised water authorities jobs went from 53,524 in 1985 to 46,728 in 1989.³⁴ The number has since fallen even lower by 4,951 from 1989-1994.³⁵ Overall, the water industry in England made nearly £2 billion profits in 1997, compared to £1 billion in 1991.³⁶

Another approach used by private companies to maximize their benefits from labour is to enforce flexibility and multi-tasking. The mantra of one of the major privatised water companies in England is that they "will require all employees to work with complete job flexibility around the principle that everyone should be contracted to perform whatever duties are within their capability wherever required to do so".³⁷ The key here is increasing flexibility, eliminating trades and broadening job definitions. As the Director of Philip Utilities operations pointed out, there is no point in sending a cleaning person to one of the pumping stations which PUMC runs when something technical has to be adjusted. The maintenance person can also do the cleaning!³⁸

PUMC is attempting to multitask and multiskill most jobs. The CUPE jobs in administration and in cleaning are all being eliminated. These functions will be transferred to

³⁴ Stuart Ogden, *The Reconstruction of Industrial Relations in the Privatized Water Industry*, *British Journal of Industrial Relations* March 1994

³⁵ *Daily Mirror* July 29, 1994, p7

³⁶ BBC Waterweek site at <http://news.bbc.co.uk/hi/english/sttic/waterweek/issues01.html>

³⁷ *ibid*

³⁸ Klaus Stolch in conversation at Local 167 on December 15/98

management or head office or in the case of cleaning simply ‘multitasker’ on to other employees.

Musical chairs

The problems with privatisation and PPPs are not limited to concerns with quality of service or the quality of jobs and work. Privatisation brings its own special problems to municipal services and politics. Any privatisation deal automatically includes the transfer of employees from the public sector to the private sector. However, in the case of Philip, this was not only those who were directly involved in the waste water operations. Many knowledgeable upper level civil servants not directly related to the day to day functioning of the system also moved to the private sector.

The following management staff of the RA that helped negotiate the initial contract also moved to Philip:

- ❑ Jim Halliday, Senior Environment Director of the RA went to Philip in 1996 as water treatment superintendent.
- ❑ Teresa Gregoroff moved from Finance Director at the RA to Executive Assistant to the Vice-President of Investor Relations at Philip.
- ❑ Lora Fontana moved from being the Director of Human Resources at Hamilton Street Railways to Director of Labour Relations at PUMC.
- ❑ Jeff McIntyre moved from training for the RA to training for Philip and back to the RA to the RA’s water control Technology division.
- ❑ Tan Spencer who had been a long time Commissioner of Engineering with the RA but who had most recently been in the Peel Region public service moved to Chief Operating Officer of PUMC and is now Senior Vice-President of PUMC.

These developments tend to deflate the widely held precept that the public sector needs the business expertise of the private sector to better run its services and that is why this kind of deal is necessary. In the case of PUMC, ironically, much of that “new expertise” seems to be the same people who ran the public system! The back and forth between public and private, but

mainly public to private, blurs the important line that should exist between civil servants who represent the public good business people who have their own private and profit-driven interests at heart. Important issues of transparency and accountability are again raised here.

Having said this, no one, least of all public sector unions, would argue that public institutions are model employers. However, the unionisation rate in the public sector in Canada is over 60%; in the private sector, it is around 20%. Private sector employers take over a publicly run operation with the goal of reducing costs, partly, at least, through lay-offs and by negotiating a cheaper contract. This is no secret.

VII (6). ECONOMIC DEVELOPMENT BENEFITS

One of the reason's there was no tendering for this contract was that Philip was a local company which, with assistance from the RA, could become a national or global leader in this field bringing significant economic development benefits to the Hamilton-Wentworth region. As Leo Gohier said, "The basis of the negotiations was essentially to develop a contract that would allow a local firm to develop expertise and experience in the contract operations of a major municipality's water and waste water facilities, while providing the RA with a vehicle for economic development". For example, the RA was intent on helping Philip obtain export contracts (Article 12) by assisting it on trade missions. In the same article, Philip promised to develop an environmental enterprise centre, establish an international training centre with Mohawk College, spend \$15 million on new capital projects over five years, build a new head office building and even collaborate with McMaster University! As of writing, the only one of these initiatives that had been realized was the moving of Philip's head office to Hamilton. However, rather than investing in a new building, the RA allowed PUMC to renovate existing office space.³⁹

³⁹Buist, Steve, "The business of waste water treatment", The Hamilton Spectator, Nov 28 1998, p.A4

VIII. WHAT'S IN IT FOR THE PRIVATE SECTOR

In the conclusion to the recently obtained 1995 performance review, the Contract Co-ordinator states:

In general, the performance of PUMC during its first year of contract operations has been significantly below expectations. The relationship has been consistently confrontational, difficult, tense and frustrating. In our opinion, PUMC's focus on this contract has been changing from a cooperative spirit of business development and economic development to one of profitability only. We recognize that there have been a number of personnel changes within the PUMC organization; however, there still must be acceptance of the fact that the facility is publicly owned and with that form of ownership comes a unique responsibility towards sensitive management.⁴⁰

By its very nature, a private company has different goals than a public authority. The main aim of a private company is to achieve maximum profits for its shareholders; the main goal of a public authority is to provide public service to citizens. No matter how efficient and how upstanding a private company is, any public service component can only be a secondary goal. When the company can make more money by a new process then perhaps it will be implemented; if that process costs too much then the company will either forego it or force the public sector to pay for it. The PUMC track record on quality speaks for itself. But how profitable has the deal been for Philip?

⁴⁰ Performance Appraisal of the Philip Utilities Management Corporation, January 1, 1995 to December 31, 1995

In a press release on January 29, 1999, the Region argued that taxpayers had been guaranteed annual savings of \$2 million, 'that have been reinvested in the maintenance of public infrastructure'. Using this number and the compensation details in the contract, it is possible to estimate the gross profit earned by Philip. The first \$0.5 million in savings was written into the original contract as payable to the RA. Philip keep the first \$1 million in savings on top of that. Thereafter, the company retains 60 per cent of any further savings until savings reach 20 per cent of the annual budget after which Philip retain 80 per cent of savings. Since 20 per cent savings would equal about \$3.72 million, this suggests that Philip are making at least \$4.78 million a year on the deal.⁴¹ This also suggests that the budget for these operations has been cut by $\$4.78\text{m} + \$2\text{m} = \$6.8\text{m}$ or by 37% of its 1995 level. Little wonder that the workforce has been decimated to the point where environmental standards cannot be met.

IX. ETHICAL INVESTMENT CONCERNS

Their investment in PUMC puts the teachers' unions in Ontario in an extremely contradictory situation. On the one hand, they are trying to defend public education from privatization while, on the other hand, one of the companies in which their own pension fund is a major investor is seeking to dismantle this same public sector at the municipal level. Unfortunately, given the way in which pension funds are administered, the unions themselves have no direct say and the government appointed administrators claim to be following rules of financial prudence and due diligence. Leaders of the Ontario teachers have been quite incensed by the decision of their trustees to invest in PUMC, but their protests have been to no avail. They claim that the \$20 million investment is negligible in the scheme of things, their pension funds now reaching about \$60 billion.⁴² This particular situation, of workers' money being used

⁴¹ This is arrived at as follows: Savings to the RA of \$2m a year suggest that total savings are well in excess of \$3.72m or 20% of the original budget. On the first \$1.5m in savings, \$0.5m accrues to the RA and \$1m to PUMC. On the balance of the first 20% savings ($\$3.72 - 1.5\text{m} = \2.22m), PUMC retain 60% or \$1.332m and the RA retain 40% or \$0.888m. If the RA has saved \$2m in total, it means that the balance of its savings come from 20% of $\$2\text{m} - 0.5\text{m} - 0.888\text{m} = \0.612m . If the RA gains \$0.612m on 20% of additional savings, then PUMC gains $\$0.612 / 0.4 = \2.448m on this portion. Total returns to PUMC = $\$1\text{m} + \$1.332 + 2.448 = \$4.78\text{m}$.

⁴² Peter Power, 'The Push to Invest Ethically', *Toronto Sun*, April 17, 1999.

to promote privatization and the laying off of other workers, is but one of many ethical dilemmas arising in the investment of workers' pension funds and, as Jim Stanford has argued, there are no simple answers.⁴³ What is clear, however, is that workers ought to have a direct say in how their pension funds are invested and the option of declining certain investments which do not meet pre-determined ethical criteria, recognizing that this may well reduce the financial returns to and therefore the growth of their funds.

X. CONCLUSIONS

As was shown above, none of the major selling points which PUMC and Philip Service promised the RA, have been met, with the exception of the headquarters move. The cost savings that were meant to be achieved came at the expense of half the utility's labour force and more recently PUMC has not even bothered to file its taxes or report its financial position to the RA. PUMC has assumed a minimal amount of risk in this operation and has made significant profits while its operations continue to pose a risk to the environment. It is clear that the Hamilton-Wentworth - PUMC PPP is not a good agreement for the people of Hamilton - Wentworth or for the environment.

Given the trend toward PPPs in Canada the poor record of the PPP in question does not inspire confidence about the possibility of other PPP's in the provision of public sector services. There are, however, still considerable benefits to the traditional approach to infrastructure and service delivery and not every government is leaning toward the PPP approach. York RA was rumoured to have done a major privatisation deal with Consumer Utilities but in fact, the deal turned out to be much more limited. York did not go private because in the York case it was shown that a public sector company can raise debt more cheaply than can a private sector corporation. York RA was also exempt from numerous taxes such as the GST and in looking at the PPP option it was discovered that, unlike municipalities, private companies cannot collect development charges.⁴⁴

⁴³See Jim Stanford, *Paper Boom*, CCPA, Ottawa and Lorimer, Halifax, 1999. Chapter 15

⁴⁴ Global Water Report May 23, 1997 "Fast Track turns into Rocky Road in Canada"

With respect to the Hamilton - Wentworth Regional Authority, the RA could definitely have modernised, saved money and kept the contract in the public sector. Regional Authorities all across Ontario, from Halton right next door to Ottawa, have cut annual costs by modernising the infrastructure but at heavy cost in terms of investment. Ottawa spent some \$300 million on a state of the art plant. The modernisation that Hamilton needs is, likewise, not cheap and automation of certain operations could certainly mean fewer employees are needed to do the same tasks. However, in the public service, workers could be re-trained for other jobs, bump for other positions or, as a last resort, receive decent severance packages. In the end, a publicly controlled situation would have been cheaper as all the future benefits of the capital spending would go to the RA, whereas under the Philip deal, the private sector gains the lion's share of any cost savings, whatever their origin. Perhaps in recognition of this reality, in December, 1998 Peel RA chose the publicly-owned Ontario Clean Water Agency (OCWA) to manage its water operations over a number of private bidders, including PUMC.

This does not mean, however, that PPPs are not a continual threat to public sector employees and citizens in general especially with regard to water provision. OCWA, the provincially-owned water agency is once again (March 19998) on the block for possible privatisation, according to Rob Sampson of the Office of Privatization in Ontario.⁴⁵ In Moncton, the US Filter led consortium, Greater Moncton Water Ltd., is building a \$23.1 million plant which it would then run. At the same time, the company is trying to receive a special exemption from paying the GST.

The continued threat of PPP's inspires the question: What can be done?

⁴⁵ <http://www.ene.gov.on.ca/envision/news/privnr.htm>

XI. RECOMMENDATIONS

1. The RA should examine how to break the contract and re-instate public management, as is the case in the overwhelming majority of Ontario cities. Articles 18 and 11 of the contract allow the RA to terminate the contract if PUMC or *Philip Services* defaults by a series of measures such as “stops making payments to its creditors in the ordinary course of business” or any proceedings relating to bankruptcy or insolvency. In other words, the grounds are already there for the RA to break the contact and move back to being a public manager. This is the RA’s chance to admit that the deal has been a failure and that, rather than an example to follow for the future, the Philip contract has been a costly mistake for all concerned.
2. The RA should, in the mean time, appoint an independent regulatory body composed of independent observers to monitor and examine contract compliance in a public and transparent fashion.
3. No more privatizations should be contemplated without a full public discussion and an election on the issue. Then, if the proposal is approved, there must be a full public tendering process.
4. The immediate publication of all financial items related to the PUMC contract including the audited PUMC annual statements.
5. Companies which are the subject of RA or City contracts should not be permitted to contribute financially to campaigns of municipal candidates.
6. All laid off workers at PUMC should be given a decent severance package paid for out of Philip profits from the cuts.

7. The annual reports on contract compliance should be re-stated and the missing years 1996, 1997, and 1998 produced and released.
8. The contract and all subsequent changes should be published.
9. All information regarding drinking water and effluent quality, content and changes, and all information on spills should be made public on a monthly basis.
10. The quality of Hamilton's water and waste water should be benchmarked against other large Ontario Regions and published on a regular basis.

XII FIGURE 1

XIII APPENDIX A**TOTAL LIST FOR 1994**

- ◆ \$250 Vince Agro, Ward 2 alderman (defeated in 1997)
- ◆ \$250 Dominic Agostino, Ward 5 alderman (elected to provincial legislature in 1995)
- ◆ \$250 Terry Anderson, Ward 7 alderman
- ◆ Bernie Morelli, Ward 3 alderman
- ◆ Terry Cooke, Regional Chairman
- ◆ \$500 Chad Collins, Ward 5, defeated in 1994, but elected in Ward 5 in 1995 to replace Agostino
- ◆ \$250 Tom Murray, Ward 8, defeated in 1991 and again in 1994
- ◆ \$250 John Gallagher, Ward 7, defeated in 1991 and again in 1994, defeated as Regional Chair candidate in 1997

In 1997, Philip Environmental (PE) and Philip Services (PS) both gave money to candidates. Also the law firm of Herman Turkstra who is on the Board of Philip Services and who is a major shareholder also gave money to selected candidates:

Candidate	Contribution \$	Society (PE or PS)
Terry Anderson	250	PE
Bill Kelly	250	PE
Andrea Horvath	250	PE
Terry Cooke	600	PE
Fred Eisenberger	500	PE
Robert Morrow	250	PS
Frank D'Amico	500	PE
Marven Caplan	200	PE
Marven Caplan (2e)	250	PS
Bernie Morelli	100	
	(200 \$ - tickets)	
Thomas Jackson	350	PE
Chad Collins	200	PE

PE or PS also gave money to 4 losing candidates Vince Agro \$250 PE, Sam Merulla \$250 PE, William McCulloch \$250 PS and M. Oddi \$250 PE.

XIV. BIBLIOGRAPHY

AMSA, "Evaluating Privatization", an AMSA checklist

Arnold, Steve, "Philip wrong not to tell region about job cuts: Morrow" The Hamilton Spectator, Apr, 6, 1996

Arnold, Steve, "Philip water-sewer deal works: Cooke", The Hamilton Spectator, Sept. 22, 1998

Arnold, Steve "20 Losing Jobs at Sewage Plant", The Hamilton Spectator, Mar 23, 1996

Arnold, Steve "Councillors red-faced over sewage surprises", The Hamilton Spectator, April 10, 1996.

Arnold, Steve "Philip offers \$1m to scrap plant", The Hamilton Spectator, Sept 28, 1998, p. A6

BBC Waterweek site at <http://news.bbc.co.uk/hi/english/sttic/waterweek/issues01.html>

Bernadetti, Paul, "Homeowner hoping he can flush sewer decision", The Hamilton Spectator, Mar. 6, 1997

Brown, Barbara, "Sewage Plant probe was indifferent to truth: lawyer" The Hamilton Spectator, Oct. 24, 1997, p. A9

Brown, Barbara, "Flamborough, Burlington to discuss closer dealings" The Hamilton Spectator, Jan. 5, 1999, p. A5

Buist, Steve "Province rejects insurance liability offer", The Hamilton Spectator, Nov. 23, 1998, p. A1

Buist, Steve, "Ministry demands Phillips surety", The Hamilton Spectator, Nov. 12, 1998 p. E1

Buist, Steve "Phillip crisis has become political football", The Hamilton Spectator, Nov. 14, 1998

Buist, Steve, "Council wants Taro East Closed", The Hamilton Spectator, Nov.6, 1998, p. A1

Buist, Steve "The business of waste-water treatment", The Hamilton Spectator, Nov. 28, 1998 p. A4

Buist, Steve, "No investigation at Woodward Avenue Plant", The Hamilton Spectator, Nov 28/98, p.A4

Buist, Steve "Region may dump Philip's Taro Sewage deal", The Hamilton Spectator, Nov. 17, 1998, p. A8

Burman, John, "Phillip loses \$1billion", The Hamilton Spectator, Nov. 14, 1998

Burman, John, "Phillip's fate on table", The Hamilton Spectator, Nov. 18, 1998, p. c6

Burman, John, "Phillip faces shareholder bankruptcy ultimatum", The Hamilton Spectator, Nov. 17, 1998, p. A1

Canadian Union of Public Employees, *Who's Cashing in? A local Union Guide to corporate research*, Ottawa

- Canadian Union of Public Employees, *Behind the Pretty Packaging: Exposing Public-Private-Partnerships*. Sept., 1998
- Canadian Water and Waste Water Association, Bulletin, The National Newsletter on the Management of Water and Waste Water. Volume 12, No. 4
- Canadian Centre for Policy Alternatives, *The Cost of Privatisation: Olsten Corporation and the Crisis in American for-profit Home Care*.
- Canadian Union of Public Employees, Water Privatisation: Coming to a Community Near You? Research Report, September, 1998
- Chandler, Timothy "Sanitation Privatisation and Sanitation Employees' Wages", in Journal of Labour Research, Volume 15, No. 2 Spring 1994
- D'Angelo, Carmen "Phillip should Live up to landfill site commitments", September 29, 1998
- Davison, Mike, "You can see it doesn't always pay to pare the payroll", The Hamilton Spectator, Oct. 20, 1995
- Daily Mirror July 29, 1994, p7
- Davy, Denise, "Millions of litres of raw sewage spill into harbour", The Hamilton Spectator, Jan. 22, 1996
- Davy, Denise, "Homeowners cry foul over sewage flood", The Hamilton Spectator, Jan 22, 1996
- Dobbin, Murray. In Defence of Public Services: Preserving the dream of a just society. Canadian Centre for Policy Alternatives, Ottawa
- Douglas, Heather, Overview of Municipal Legislation for Private Involvement in Public Works, Macmillan Binch, May 1997.
- Dreschel, Andrew, "Uncharted Waters", The Hamilton Spectator May 6, 1996
- Ducharme, Jason, "Water and Waste Water Treatment in Canada", KPMG, May 1997.
- Editorial, "Phillip must pay it Taro debt", The Hamilton Spectator, Sept. 30, 1998
- Editorial, "Water quality is not a frill", The Hamilton Spectator, Jan 11, 1999, p. A8
- Environment and Transportation Department, Protecting Our Water Environment, The Regional Municipality of Ottawa Carleton, December 1995.
- Fletcher, Paula. An Analysis of Privatisation Pressures on Toronto's Water Environment, a report prepared for CUPE National November, 1998.
- Formo, Tony. Deputation Bill 107, Given t the Standing Committee on General Government Conducting hearings on the Water and Sewage Services Improvement Act, April 15, 1997

- Freeman, Richard, "Privatisation of water is thievery", In Executive Intelligence Review, November 8, 1998
- Freeman, Neil. Ontario's Water Industry: New Legislative Framework, a report prepared for the Ontario Municipal Water Association (OMWA), April 27, 1997.
- Freeman, Neil The Future of OCWA and Ontario's Water Industry, A submission prepared for the Bill 107 hearings of the Standing Committee on Resources Development, April 15, 1997.
- Girard, Daniel, "Drinking water warning issued", The Toronto Star, December 4, 1996
- Global Water Report May 23, 1997 "Fast Track turns into Rocky Road in Canada"
- Gohier, Leo, "Water Quality - Taste and Odour", Dec 15/98
- Gohier, Leo, "What Did We Do?" at the "Forming Successful Public Private Partnerships" Toronto May 1997
- Gohier, Leo, Status Report on the Public Private Partnership Between Philip Utilities Management Corporation and the Region of Hamilton Wentworth, Dec 9, 1998
- Gore and Storrie Limited, Robert O. Pickard Environmental Centre: Design and Operating Philosophy, Regional Municipality of Ottawa-Carleton, Environmental Services Department, March 1994.
- Goudriaan, Jan-Willem and David Hall. The Problems with Privatising Water: Private Companies rife with corruption, incompetence. 1997
- Government of New Brunswick, Department of Finance. Public-Private Partnerships: Guidelines and Protocols, Fredericton, 1999. P. 5.
- Gray, Barry "Environmental Assessment has few fans", The Hamilton Spectator, May 6, 1996
- Herron, Shaun N., "region to pick up flooding cost", The Hamilton Spectator, Jan. 31, 1996, p. B1
- Herron, Shaun, "Staff put tight lid on spillage of raw sewage: Councillor", The Hamilton Spectator, Mar. 1, 1996.
- Hughes, Rick, "Region balks at expense of sweeter water", The Hamilton Spectator
- Hughes, Rick, "Suspect sludge had exemption", The Hamilton Spectator, Nov. 6, 1998
- Hughes, Rick, "Harbour cleanup under threat", The Hamilton Spectator, Jan. 8, 1999, A3
- Hughes, Rick, "Province rejects bid to shut Taro", The Hamilton Spectator, Nov. 7, 1998, p. A3
- Jackman, Wayne, "An Environmentally beneficial solution", The Hamilton Spectator, Oct. 6, 1998
- KMK Consultants Limited and Price Waterhouse. The Regional Municipality of Peel Request for Qualifications. August 1997.

Kuitenbrouwer, Peter, "Phillips's liabilities could halt its slide into bankruptcy", The Financial Post, Jan. 8, 1999, p. C3

Kuitenbrouwer, Peter, "Scrapping over Phillip's troubles", The Financial Post, Nov. 12, 1998, p. C9

Laxer, James. "Don't let Harris dry up public waterworks" The Toronto Star, November 11, 1996, A 15

Leitner, Richard, "Taro sewer pact gets its sixth reprieve: On-site treatment options few: report", Stoney Creek News, July 15, 1998

Loft, Fred, "Region should not pay sewer damage", The Hamilton Spectator, Feb.2, 1996

Martin, Brendan. "From the many to the few: Privatization and Globalization", in the Ecologist, Vol. 26. No. 4, July / August 1996

McFarland, Janet and Waldie, Paul, "Battle erupts over losses", The Toronto Star, July 31, 1998.

McFarland, Janet, "Phillip Services running out of Credit", The Globe and Mail, Aug. 20, 1998.

McFarland, Janet, "Icahn names two directors for Phillip", The Globe and Mail, Nov. 25, 1998.

McNeil, Mark, "Sewage plant failure a mystery", The Hamilton Spectator, Jan. 23, 1996

McNeil, Mark, "Oh what a mess!", The Hamilton Spectator, Jan. 20, 1996

McNeil, Mark, "Paradise lost after raw sewage leak", The Hamilton Spectator, July 23, 1994.

McNeil, Mark, "PCB'S at sewage plant to be removed", The Hamilton Spectator Oct. 25, 1997

McNeil, Mark, "Province to aid harbour cleanup", The Hamilton Spectator, Feb. 12, 1997, A3

McNeil, Mark, "Pump failure report row", The Hamilton Spectator, p. B3

McNeil, Mark, "Region's aging sewage system slowing down harbor restoration", The Hamilton Spectator, Dec. 6, 1997.

McNeil, Mark, "Rough ride for Phillip experiment", The Hamilton Spectator, Sept. 14, 1996.

McNeil, Mark, "Sewage pal raises concerns, Burlington wants to use lake", The Hamilton Spectator, Oct. 2, 1996

McNeil, Mark, "Is Ontario going soft on polluters?: Phillip Utilities avoid charges after donation made to restoration council", The Hamilton Spectator, Feb. 6, 1998

McNeil, Mark, "Halton's growth dims hope for harbour", The Hamilton Spectator, Dec. 20, 1995, B2.

- McNeil, Mark, "Streamlining the sewage system", The Hamilton Spectator, June 5, 1996, A1 /2
- McNeil, Mark, "Dundas sewage plant may shut", The Hamilton Spectator, Oct. 9, 1997.
- McNeil, Mark, "Alarm at sewage plant went unheeded", The Hamilton Spectator, Feb. 19, 1997.
- McNeil, Mark, "Big stink over main sewer line", The Hamilton Spectator, Sept. 25, 1997.
- McNeil, Mark, "Big Stink lingers on over sewage plant breakdown", The Hamilton Spectator, Jan. 3, 1997
- McNeil, Mark, "Sewers are starting to fall apart", The Hamilton Spectator, Dec. 7, 1996, A5
- Mittelstaedt, Martin, "Ontario to sell water, sewage agency", The Globe and Mail, October 17, 1996.
- Mittelstaedt, Martin, "Province to transfer waterworks to cities", The Globe and Mail, Dec. 4, 1996.
- Mittelstaedt, Martin, "Ontario prepares negligence defence", The Globe and Mail, Feb. 18, 1997.
- Nelson, Joyce, There Goes Our Water, A Citizen's Guide to the Water Privateers, unpublished research study.
- Ogden, Stuart, "The Reconstruction of Industrial Relations in the Privatized Water Industry", in British Journal of Industrial Relations, 32:1 Mar. 1994
- Ontario Public Service Employees Union, Your Water Works: Should Foreign Corporations Profit from Peel Region's Water Supply?
- Ontario Municipal Water Association, Ontario's Drinking Water in Jeopardy, Waterloo, December 3, 1996
- Palin, Frank, "We can't throw stones at Love Canal", The Hamilton Spectator, Oct. 11, 1995
- Passell, Peter, "A gush of profits from water sale", New York Times, April 23, 1998
- Peters, Ken, "Charges pending over waste water plant food", The Hamilton Spectator, Sept. 12, 1996, A1
- Peters, Ken, "Region, Phillip have \$25 million spat", The Hamilton Spectator, Oct. 11, 1995
- Peters, Ken "Sewage can mean cold cash", The Hamilton Spectator, Dec. 19, 1995
- Peters, Ken, "Sewage damage blamed on Phillip", The Hamilton Spectator, Sept. 6, 1996
- Pettapiece, Mike, "Embattled Phillip appoints two new directors", The Hamilton Spectator, Nov, 25, 1998
- Pettapiece, Mike, "Bid to quash suit 'unrealistic'", The Hamilton Spectator, Nov. 14, 1998, p. D9
- Poiling, Jim, "Sludge incinerator closing", The Hamilton Spectator, Jan 6, 1996.
- Poiling, Jim, "Region has Phillip options", The Hamilton Spectator, Nov. 18, 1998

Pollack, Andrew, "Tightening the faucet: How U.S. is consolidating the waterworks, New York Times, April 23, 1998

Pollara, Public Opinion in Ontario Toward Community Drinking Water Systems. Draft Report to the Ontario Municipal Water Association : 1997

Prokaska, Lee, "Nothing is sacred in Region's budget", The Hamilton Spectator, Jan. 11, 1999

Prokaska, Lee, "Council gives Taro 4 months to work out leachate deal", The Hamilton Spectator, Nov. 18, 1998

Prokaska, Lee, "Dirty Money: Bay Area Restoration Council debates taking donations from polluters", The Hamilton Spectator, Feb, 1998

Prokaska, Lee, "\$90m funding plan scuttled", The Hamilton Spectator, Jan. 26, 1998

Reaume, Brad, "Drinking water must be protected", The Burlington Post, March 5, 1997

Reaume, Brad, "Special water charge possible to offset costs" The Burlington Post, Nov. 27, 1996, A11

Regional Municipality of Peel Public Works Department, Request for Proposals: Regional Municipality of Peel Competitive Contract for the Operations and Maintenance of the South Peel Water and Wastewater Treatment Facilities, May 27, 1998

Regional Municipality of Ottawa-Carleton, Robert O. Pickard Environmental Centre Expansion and Rehabilitation Programme: Project synopsis, Nov., 1993

Robert O. Pickard Centre, The Industrial Waste Sewer Use Control Program: A guide for Business and Industrial Facilities, Region of Ottawa-Carleton, July 1998

Rogers, Ed, "Halton to ask Peel price of water to develop Milton", The Hamilton Spectator, June 17, 1997

Rubin, Sandra, "Phillip shares keep sinking", The Financial Post, Aug. 20, 1998, p. 3

Ruby, Michael, "Ex-Waterdown firm sues Phillip over waste plan", The Hamilton Spectator, Dec. 21, 1995

Sandlos, John, Deputation on Bill 107, April 16, 1997.

Save Ontario Water, Documentation on the Impacts of Water Privatisation in the U.K., Submitted to the Standing Committee on Resource Development, April 15, 1997

Savoline, Joyce, "Halton sewage plan balances growth, environment", The Hamilton Spectator, Nov. 15, 1996.

Sewell, John, "Amendments to Bill 107", Memo to the Resources Development Committee, April 15, 1997.
Shofield, Richard and Shaoul, Sean, "Regulating the Water Industry: Swimming Against the Tide or Going Through the Motions? In the Ecologist, Vol. 27, No. 1, January / February 1997.

Simpson, Leslie, "\$24m in sewer projects backed up", The Hamilton Spectator, Feb. 23, 1996

Status Report September 1998, Remedial Action Plan for Hamilton Harbour 1998

Stewart, Ian, "Some things are not meant to be- the expressway", The Hamilton Spectator, Jan. 11, 1999, p. A8

Stolch , Klaus, PUMC Manager of the Woodward Plant

Stuart Ogden, The Reconstruction of Industrial Relations in the Privatized Water Industry, British Journal of Industrial Relations March 1994

Tait, Eleanor, "Sewage plant nearing capacity", The Hamilton Spectator, Feb. 17, 1997, A7

Viirland, Jaak, "Sewage plant should not dump into Lake Ontario", The Hamilton Spectator, Oct. 21, 1996

Viirland, Jaak, "Halton shouldn't dump sewage in Lake Ontario", The Hamilton Spectator, Oct. 24, 1996

Wallen, David, "Profiteering claims mark British privatisation", The Globe and Mail

Water and Sewage Improvement Act, 1997: Compendium

World Bank, Toolkit 1: Selecting an Option for Private Sector Participation, Washington, 1998.

World Bank / PBEC Round Table, "Buenos Aires Water and Sewerage Privatisation Case Study Paper, Sept. 1998.

Interviews and Contacts

Greg Hoath, IUOE

Gus Olivera, President CUPE local 167

Ed Thomas, CUPE Recording Secretary local 5

Sarah Miller, CELA

Andrew Horvath, City Councillor

Leo Gohier, Director Water and Waste Water

Klaus Stolch, PUMC Director of Operations

Marilyn Baxter, BARC

George Sorer, McMaster University

Steve Buist, Hamilton Spectator

Paula Fletcher

John McCracken, CUPE Communications

Ron Crawly, CUPE Research

Mark Schuler, Pell Region Head of Water and Waste Water

Don McLean, University of Waterloo

John Percy, Ministry of the Environment

Jocelyne Villeneuve, City Ottawa

John Loxley, University of Manitoba

Klaus Stolch in conversation at Local 167 on December 15/98

John Percy, Ministry of the Environment interview January 1999