

**Appendix K**  
**Consultation Program Supporting Documentation**

**Table K-1**  
**Meetings with Neighbours**

No.	Company	Address	Contact	Phone
1.	Payzants Home Building Centre	40 Wright Avenue Dartmouth, N.S. B3B 1G6	Gordon Thurber	468-3500
2.	Happy Harry's Affordable Building Centre	46 Wright Avenue Dartmouth, N.S. B3B 1G6	Jim Canning	468-2319
3.	Quebecor World Atlantic	57 Wright Avenue Dartmouth, N.S. B3B 1H2	David Storey	468-7400
4.	East Coast Specialty Hardwoods	53 Wright Avenue Dartmouth, N.S. B3B 1G9	Robert Matheson	468-3334
5.	Maritime Paper Products	25 Borden Avenue Dartmouth, N.S. B3B 1G8	Gary Johnston	468-5353
6.	Scotsburn Dairy Group	1 Wright Avenue Dartmouth, N.S. B3B 1G5	Peter MacDonald Mel MacConnell	468-7417
7.	LumberMart Clearance Centre	15 Wright Avenue Dartmouth, N.S. B3B 1G8	Jason O'Hearn	468-7772

## **Neighbourhood Information Package**

**MEDICAL WASTE MANAGEMENT INC.  
NOVA SCOTIA BIOMEDICAL WASTE PROCESSING FACILITY  
FACT SHEET**

Medical Waste Management Inc. (MWM) is a 65% majority owned subsidiary of Brampton Brick Ltd., a publicly traded company of the Toronto Stock Exchange (TSX). MWM has been awarded a conditional contract by the Nova Scotia Department of Health to manage the approximate 2,300 tonnes of biomedical wastes generated by Nova Scotia's healthcare facilities each year. This waste is currently collected and transported to a municipal waste incinerator operated by the Cape Breton Regional Municipality, which has been scheduled for closure by December 31, 2005. As such, MWM has committed to meeting the mandatory operational commencement date of December 21<sup>st</sup>.

MWM has leased a 15,360 ft<sup>2</sup> commercial/industrial property located at 45 Wright Avenue in the Burnside Industrial Park where they will construct a state-of-the-art biomedical waste processing facility. This facility will treat only 'Yellow Bag' biomedical waste (e.g., bloody bandages, gauze, used needles, I.V. tubing and cartridges, body fluid suction canisters, mattress pads, surgical gowns, non-hazardous pharmaceuticals), which accounts for approximately 95% of the provincial biomedical waste stream.

Treatment is comprised of the complete sterilization of all Yellow Bag waste, using a technologically advanced high temperature steam autoclave, the same kind of technology used to sterilize surgical instruments within a hospital environment. Sterilized waste is then shredded and automatically loaded into a self-contained and fully enclosed 35 yd<sup>3</sup> waste compactor container for transport and disposal as non-hazardous waste at an approved municipal solid waste landfill.

Biomedical waste will be packaged within Transport Canada approved containers (both single-use and reusable) and transported in approved refrigerated transport vehicles, configured specifically for this dedicated purpose. All biomedical waste shipments will be computer tracked from the point of origin through to final disposal, with all related data electronically stored for a period of not less than two (2) years.

MWM currently operates an Ontario Ministry of the Environment approved biomedical and pharmaceutical waste treatment facility in Brampton, Ontario (see attached photographs). This facility has operated at the most environmentally compliant manner possible since February 1999, using the identical waste processing technologies (autoclave, shredder, waste compactor, etc.) that it intends to use in Nova Scotia. Due to the size of the biomedical waste market in Ontario (population based), MWM also operates the best available medical waste incinerator and emission control technologies available, for the complete destruction of *must-burn* medical waste.

The biomedical waste market in Nova Scotia is too small to warrant the installation of the best available medical waste incinerator and emission control technologies available, due to the extremely high cost of this type of equipment. As such, the remaining 5% of Nova Scotia's 'Red'Bag' (*must-burn*) biomedical waste (anatomical tissue, cytotoxic or chemotherapy waste and hazardous pharmaceuticals) will be segregated from the Yellow Bag waste upon receipt, temporarily stored in secure containment areas within the new waste processing facility, for scheduled transport to MWM's facility in Brampton, Ontario for incineration. Red Bag biomedical waste will NOT be processed at MWM's Nova Scotia facility.

Key Medical Waste Management Contacts:

Daniel Kennedy, President and Chief Operating Officer	-	Telephone: 1.866.836.6660
Alice McCarron, Nova Scotia District Manager	-	Telephone: 902.476.1277
Keith Altimas, Nova Scotia District Client Care Manager	-	Telephone: 902.423.0166

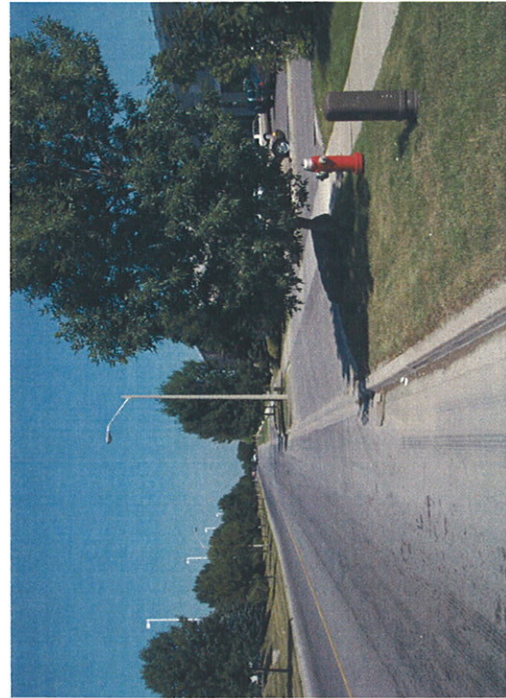
Please do not hesitate to contact us if you have any questions or comments regarding our project. Additionally, the closest neighbours to our Brampton, Ontario facility have agreed to make themselves available as references, should you wish to contact them. Letters of reference have been attached for your information.



**Burnside Facility Location, 45 Wright Avenue**



**Brampton Facility Street View**



**Brampton Facility Streetscape**



**Brampton Facility Parking Lot Van**

Thursday July 21, 2005

Zadi Foods Ltd.  
65 Deerhurst Dr.  
Brampton, on L6T 5R7

To Whom It May Concern:

Zadi Foods Ltd., a high end deli meat process and distribution company, has been an adjacent business neighbor of Medical Waste Management Inc. for the past five (5) years. I have personally observed your company's biomedical waste processing activity throughout this period and have attended your facility out of interest on several occasions. I can confirm without hesitation that your company appears to operate in an effective manner, your plant and equipment, building, transport vehicles and property is always clean and in a good state of repair and we have never experienced any odours from your operation.

Although our company expressed an initial concern when you announced the planned installation of a biomedical waste incinerator in 2001, any such concerns were addressed to our satisfaction through your informative public consultation process. We were also very pleased that you took it upon yourself to facilitate a Canadian Food Inspection Agency audit of your operation on our behalf, which confirmed that your operation did not present any negative impact on our food processing operation.

As a result, I would not hesitate to provide MWM with a positive referral for the development of a similar processing facility in Nova Scotia, with complete confidence that your commercial / industrial business neighbors in Nova Scotia would be as pleased to have Medical Waste Management Inc. as a neighbor there, as we are here.

Yours truly,



Vince DiBattista  
President



**NEWCASTLE**  
Woodworking & Interiors Inc.

Thursday July 21, 2005

To Whom It May Concern:

REFERENCE: Medical Waste Management Inc. – Brampton, Ontario

Dear Sir / Madam;

In early 1998 Newcastle Woodworking & Interiors Inc. set up its custom woodworking operation within an industrial / commercial property located at 95 Deerhurst Drive in Brampton, Ontario, occupying approximately 50% of that building. In late 1998 Medical Waste Management Inc. proposed to move into the other half of this property and although we were initially hesitant, the information provided by MWM, regarding the manner in which they intended to operate their unique business gave us with a better understanding of what they did and how they did it, which eased our concerns significantly.

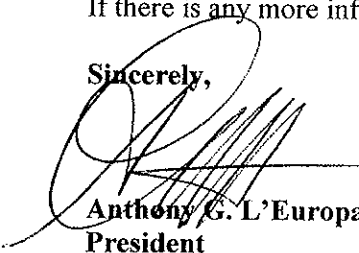
Both companies physically shared this single building from December 1998 through September 2000 and throughout this time we experienced no problems with the MWM operation or any of its employees. In fact, we were able to establish an excellent working relationship where we were provided access to MWM's material handling equipment when required and were able to provide MWM with some custom file cabinetry as their company grew. At no time did we find the MWM operation to be a nuisance, we never detected any odors from their area of the building and their operating area was always kept organized and clean.

In September 2000, MWM introduced plans to expand through the installation of Ontario's first and only commercial medical waste incinerator, and we were pleased to support them through their public consultation process. This expansion created a need for more space to accommodate new process equipment and Newcastle Woodworking & Interiors Inc. took this opportunity to relocate just up the same street to a newer building.

We remain in contact with Daniel Kennedy and MWM and as a business neighbor, we still have only positive things to say about this company and we have never heard any negative comments from any other neighbor. Unless you had a reason to work with this company, or passed their building on the street, you would never even know that they were in your commercial neighborhood.

If there is any more information that I can provide you regarding this company, please feel free to call.

Sincerely,



Anthony G. L'Europa  
President

# **Vision Engineering & Fabrications**

*A division of 1657705 Ontario Limited*

**221 Deerhurst Drive Unit 2, Brampton, Ontario, Canada L6T 5L7**

**Phone: 905-677-7077 Fax: 905-792-0870 Toll free: 1-877-666-7077**

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21<sup>st</sup> July, 2005

To whom it may concern,

My name is Alexander Wheeldon and I am the director of Vision Engineering & Fabrications. We are a custom metal fabrication and millwright service corporation.

Since establishing our company on Deerhurst Drive in February 2000, we have become quite familiar with our neighboring businesses and their services.

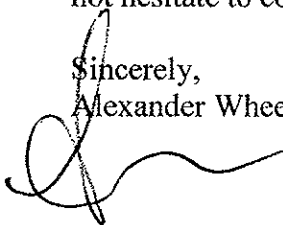
In this time, none have been more professional and courteous than Medical Waste Management Inc. and SharpSmart Canada Ltd. It has been a pleasure knowing Dan Kennedy and MWM Inc, while witnessing their state of the art company unfold and grow so fluid.

Skepticism generally occurs at the mention of a Bio-medical waste treatment facility in close proximity to ones business. However, other than the unique nature of MWM's business, further inspection reveals that there is nothing out of the ordinary about this operation.

There have been absolutely no instances of irregular smells and noise pollution is non-existent. In fact, MWM Inc. is the model of how a tight ship should be run.

If you require further information or have any questions regarding this letter, please do not hesitate to contact me at 905-677-7077.

Sincerely,  
Alexander Wheeldon







## INFORMATION OPEN HOUSE

# BIOMEDICAL WASTE PROCESS FACILITY

**Burnside Industrial Park  
(45 Wright Avenue)**

**August 4, 2005**

**10:00 AM to 2:00 PM  
and  
4:00 to 6:00 PM**

**Welcome!**

**Table K-2  
Neighbourhood Open House Invitees**

<b>No.</b>	<b>Company</b>	<b>Address</b>	<b>Contact</b>	<b>Phone</b>
1.	TTL Pipe Limited	90 Wright Avenue Dartmouth, N.S. B3B 1P2	Brian Johnson	468-4509
2.	MacFarlands	90 Wright Avenue Dartmouth, N.S. B2Y 3Z6	Keith Bullen	468-2999
3.	John White Ltd.	90 Wright Avenue Dartmouth, N.S. B3B 1P2		
4.	Kaycan Building Materials	91 Wright Avenue Dartmouth, N.S. B3B 1K6	Ernie Ash	468-2646
5.	Swish Clean it Centre	81 Wright Avenue Unit H Dartmouth, N.S. B3B 1H4	Elisa Corkum	468-3756
6.	Sherwin-Williams	81 Wright Avenue Local D Dartmouth, N.S. B3B 1H4	Sean Boege	468-5543
7.	Princess Auto	81 Wright Avenue Dartmouth, N.S. B3B 1H4		
8.	Aliant	77 Wright Avenue Dartmouth, N.S. B3B 1H4	Mike Shea	468-1000
9.	Mosher Engineering	71 Wright Avenue Dartmouth, N.S. B3B 1H4		
10.	Acosta Canada	67 Wright Avenue Dartmouth, N.S. B3B 1H2	Terry Doyle	468-3835
11.	Quebecor Canada	57 Wright Avenue Dartmouth, N.S. B3B 1H2		468-7400
12.	Borden/Wolsely Group	15 Wright Avenue Dartmouth, N.S. B3B 1G8	Danny Pelham	481-2915
13.	Meridian Valves	15 Wright Avenue Dartmouth, N.S. B43B 1G8		481-2915
14.	Maritime Paper Products	53 Wright Avenue Dartmouth, N.S. B3B 1G9		
15.	East Coast Specialty Hardwoods			
16.	Irving	626 Windmill Road Dartmouth, N.S.	Rob Francis	468-7755
17.	Meineke	10 Wright Avenue Dartmouth, N.S.	Pat Shoemaker	468-7711

<b>No.</b>	<b>Company</b>	<b>Address</b>	<b>Contact</b>	<b>Phone</b>
18.	Cole Harbour Glass	10 Wright Avenue Dartmouth, N.S.	Sheri	468-6954
19.	Pacino	20 Wright Avenue Dartmouth, N.S. B3B 1G6	Randy Zaahour	404-9999
20.	Zenith Electroplating	20 Wright Avenue Dartmouth, N.S. B3B 1G6	Mildred Lyons	468-4848
21.	Excel Document Solutions	40 Wright Avenue Dartmouth, N.S. B3B 1G6	Kevin Bourgeois	446-4438
22.	The Newfoundland Club	40 Wright Avenue Dartmouth, N.S. B3B 1G6	Stan	468-9816
23.	Bebbington Industries	44 Wright Avenue Dartmouth, N.S. B3B 1G6	Tony Bebbington	468-8180
24.	Happy Harry's	40 Wright Avenue Dartmouth, N.S. B3B 1G6	Jim Canning	468-2310
25.	C&B Industrial Supplies	54 Wright Avenue Dartmouth, N.S. B2Y 3Z3	Roger Rowe	468-2900
26.	Natural Oil Well	56 Wright Avenue Dartmouth, N.S. B3B 1H3	Rick Bond	468-1313
27.	Crane	58 Wright Avenue Dartmouth, N.S. B3B 1H3	Paul Brown	468-1650
28.	Centura Wall Fashions	66 Wright Avenue Dartmouth, N.S. B3B 1G6	Barry Pring	468-7679
29.	Midland Transport/Courier	66 Wright Avenue Dartmouth, N.S. B3B 1H3	Ronda Jardine	494-5544
30.	Arrow Construction Products	70 Wright Avenue Dartmouth, N.S. B3B 1H3	Lloyd Meunier	468-1551
31.	Lumber Mart	15 Wright Avenue Dartmouth, N.S. B3B 1G8	Jason O'Hearn	468-7772
32.	Home Hardware	40 Wright Avenue Dartmouth, N.S. B3B 1G6		
33.	Scotsburn	P. O. Box 340 Scotsburn, N.S. B0K 1R0	Mel MacConnell	485-8023
34.	Mitten Ving Inc.	100 Wright Avenue Dartmouth, N.S. B3B 1P2	Kim	468-3363
35.	Derendsen Fluid Power Ltd.	100 Wright Avenue Dartmouth, N.S. B3B 1P2	Mark	468-1373

<b>No.</b>	<b>Company</b>	<b>Address</b>	<b>Contact</b>	<b>Phone</b>
36.	McLennon Sales & Waterworks	111 Wright Avenue Dartmouth, N.S. B3B 1K6	Lloyd Douglas	468-1500

**Table K-3  
Municipal/Provincial Invitees to Open House**

Name	Affiliation
Kerry Morash	Minister of Environment and Labour
William (Bill) Lahey	Deputy Minister of Environment and Labour
Chris Daley	Manager, Environmental Assessment
Peter Kelly	Mayor, HRM
George MacLellan	Chief Administrative Officer, HRM
Brad Anguish	Director of Environmental Management Services, CAO Office, HRM
Dan English	Deputy Chief Administrative Officer, HRM
Jim Smith	Councillor, HRM District 9 – Albro Lake – Harbourview
Jerry Pye	MLA – Dartmouth North
Sean Audas	Development Officer, Planning & Development, HRM
Helen MacPhail	NSEL – Environmental Assessment Coordinator
Bernie Matlock	NSEL – Central Region
Andrew Murphy	NSEL – Air Approvals
Barry Friesen	NSEL – Solid Waste
Brent Baxter	NSEL – Hazardous Materials
Jim Bauld	HRM – Manager, Solid Waste Resources
Tony Blouin	HRM – Director, Planning and Development
Barry Lampier	NSDH
Darlene Fenton	NSEL

## **Information Open House Invitation**



## Invitation

### *Burnside Industrial Park – Wright Avenue Industrial / Commercial Businesses*

Medical Waste Management Inc. (MWM) has recently been awarded a Nova Scotia Department of Health conditional contract to effectively manage the Province's biomedical and pharmaceutical waste materials, generated by Nova Scotia hospitals and various other healthcare institutions.

MWM, a proud Canadian company, is recognized throughout Canada as a leader in the highly specialized industry of biomedical and pharmaceutical waste management, earning this reputation through our continuous commitment to exceptionally high operating standards and uncompromised environmental compliance.

We are grateful for the opportunity to expand our operations into Nova Scotia and we are pleased to announce that we have successfully negotiated the commercial location of our state-of-the-art biomedical & pharmaceutical waste processing facility. Our new home in Nova Scotia will be commissioned at the following address:

#### **45 Wright Avenue – Burnside Industrial Park, Burnside, NS**

Although we have already had an opportunity to personally introduce ourselves and our company to many of our business neighbours (especially the closest and the largest businesses), we look forward to meeting all of our local business neighbours. We are very proud of our environmental accomplishments to date, our process technologies and high operating standards and would welcome the opportunity to introduce our company and our management team to you in person.

As such, we will be hosting a neighbour public information session on Thursday August 4<sup>th</sup>, 2005 between the hours of 10:00 AM through 2:00 PM and again from 4:00 PM through 6:00 PM at:

#### **Ralston Room - Park Place Ramada Plaza Hotel 240 Brownlow Avenue Dartmouth, NS**

You are cordially invited to drop by at your convenience within the above times, where we will be pleased to tell you about ourselves, our company, what we do & how we do it. Most people understand that medical waste is created through the delivery of healthcare, but few people think about what actually happens to this waste. All of your questions can be answered in this highly informative but informal information session and we hope that you will be able to find a few minutes to visit. If unfortunately you are unable to attend, please feel free to contact any of the following Management Team members for any information regarding this exciting project.

**Yours very truly,**

Daniel Kennedy  
President, COO  
Manager  
Tel: 1-866-836-6660

Alice McCarron  
Nova Scotia Branch Manager  
902-476-1277

Keith Altimas  
Client Care  
902-423-0166

## **Open House Sign-in Sheet**

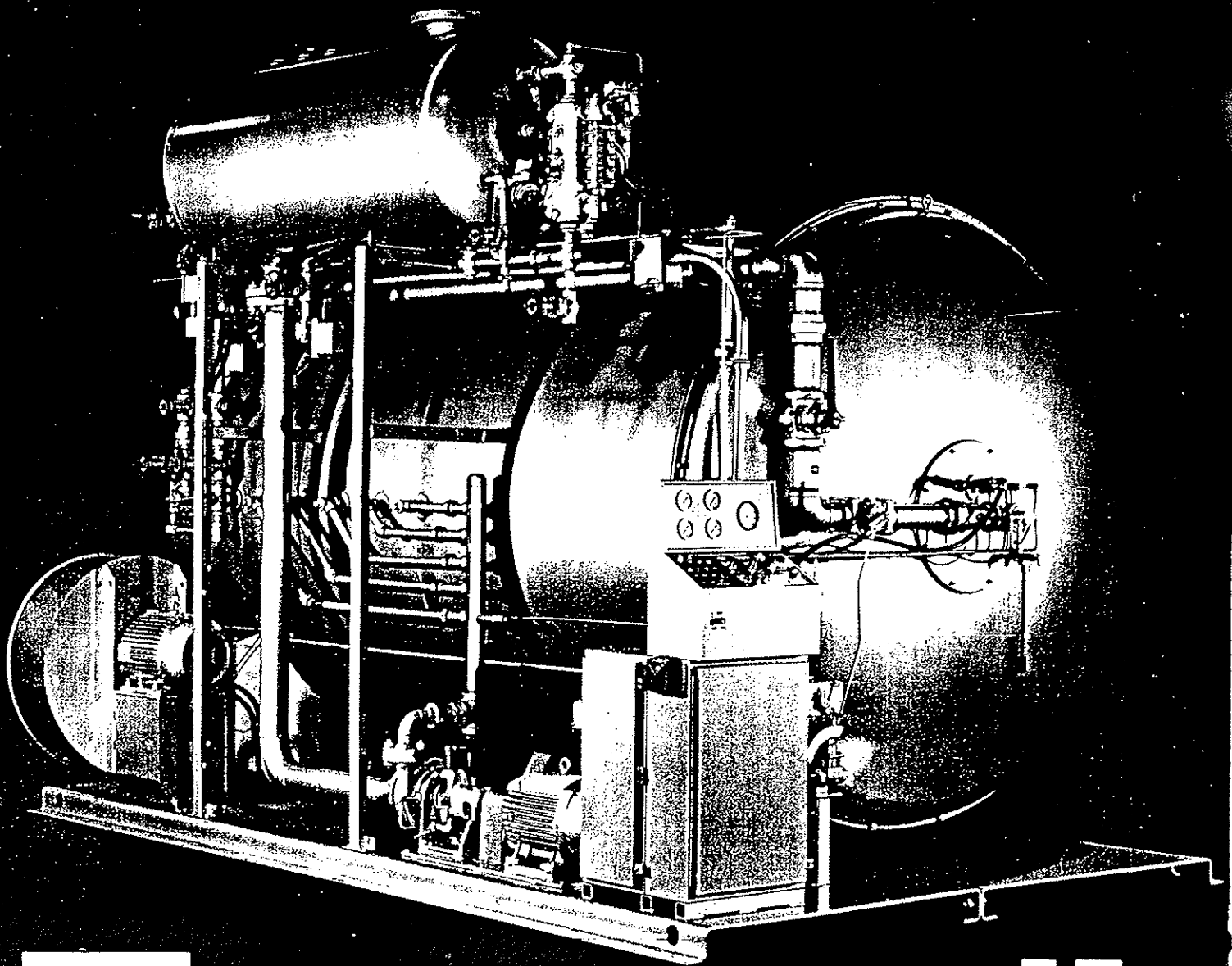




## **Open House Comment Sheet**



**Appendix L**  
**Boiler Technical Specifications**



# Thermocoil

**Packaged Recirculating Steam Boiler for  
Unattended Operation  
75-600 BHP / 15-500 PSIG**

 **THERMOGENICS INC**

# Thermocoil—a proven concept of forced, recirculating, multi-coil tube steam generators

The forced draft blower provides air for complete combustion. It is situated such that the air provides an insulation over the entire length of the boiler shell. This also serves to pre-heat the air thus resulting in increased efficiency.

The burner is available for Natural Gas, Light Oil or Combination operation. Adjustable flow control valves are utilized for both fuels. This ensures maximum combustion efficiency over the full modulating range.

The THERMOCOIL is equipped with the largest range of safety controls and annunciation lights available on any coiled tube boiler. Individual temperature controls monitor each coil and stack temperature. These can be

readily checked with the digital readout display. Safety controls also monitor low water (2), high water, high and low gas pressure, high steam pressure, combustion air pressure, atomizing air and oil pressures. The THERMOCOIL is also equipped with the latest micro computerized burner control system.

Other features, often offered as options on other units are standard equipment on the THERMOCOIL. Automatic blowdown, automatic water level control, automatic feed water/high water shut-off.

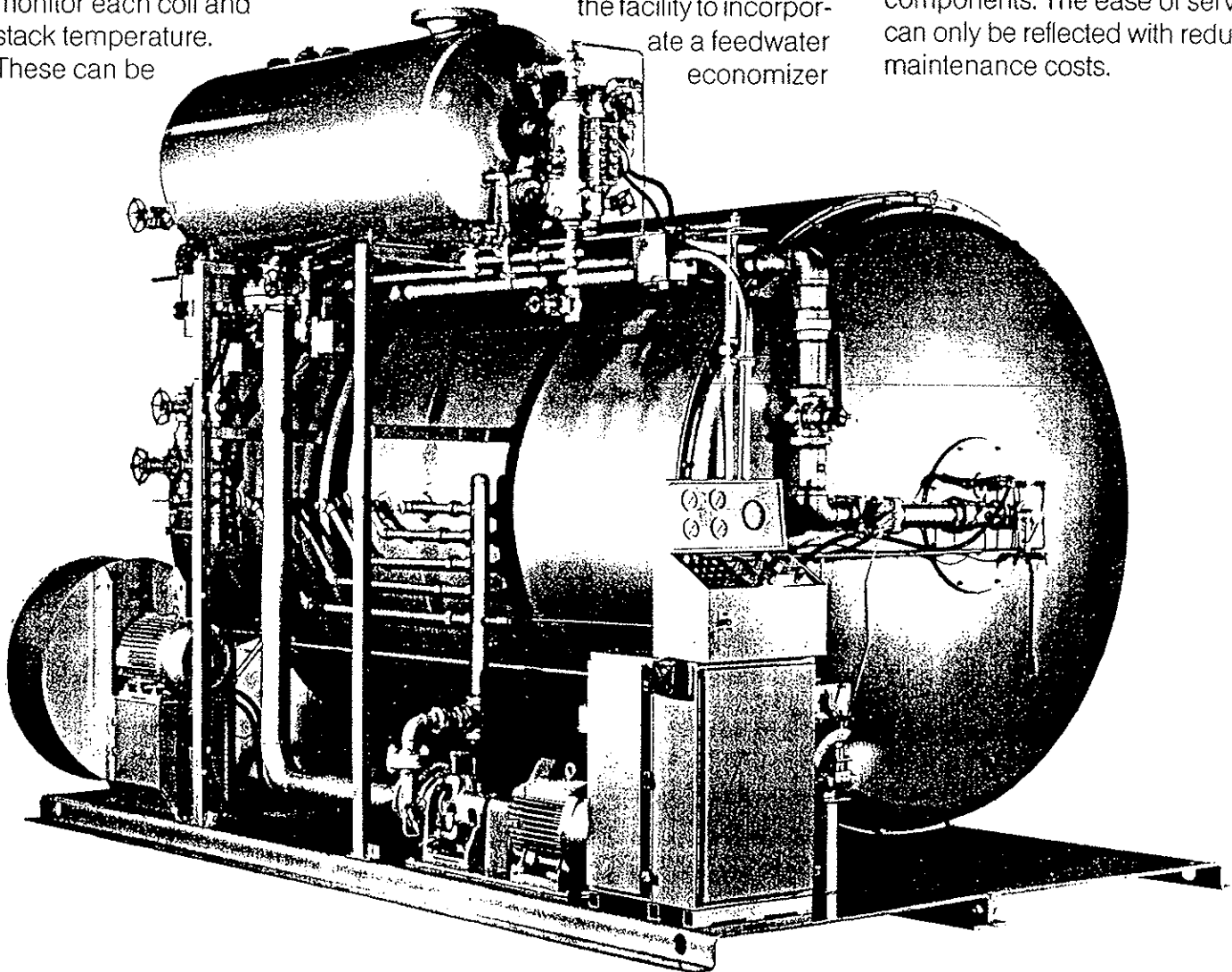
## **Economizer Option**

The THERMOCOIL is the only coiled tube boiler available with the facility to incorporate a feedwater economizer

within the boiler itself. The core assembly surrounds the coils so that hot exhaust gases are forced over the finned tubes thus extracting waste heat and pre-heating the feedwater. The internal economizer eliminates the need for extra installation costs of external units. The core is all pre-piped and valved involving no extra installation work at all. Inlet and outlet water temperatures are also monitored on the digital readout.

## **Serviceability**

The THERMOCOIL has been developed with the service technician/maintenance mechanic in mind. The general layout gives unrestricted access to all major components. The ease of service can only be reflected with reduced maintenance costs.



### Water Level Control

Provides precise, rapid response and maintains a steady water level.

### Heavy Duty Gauge

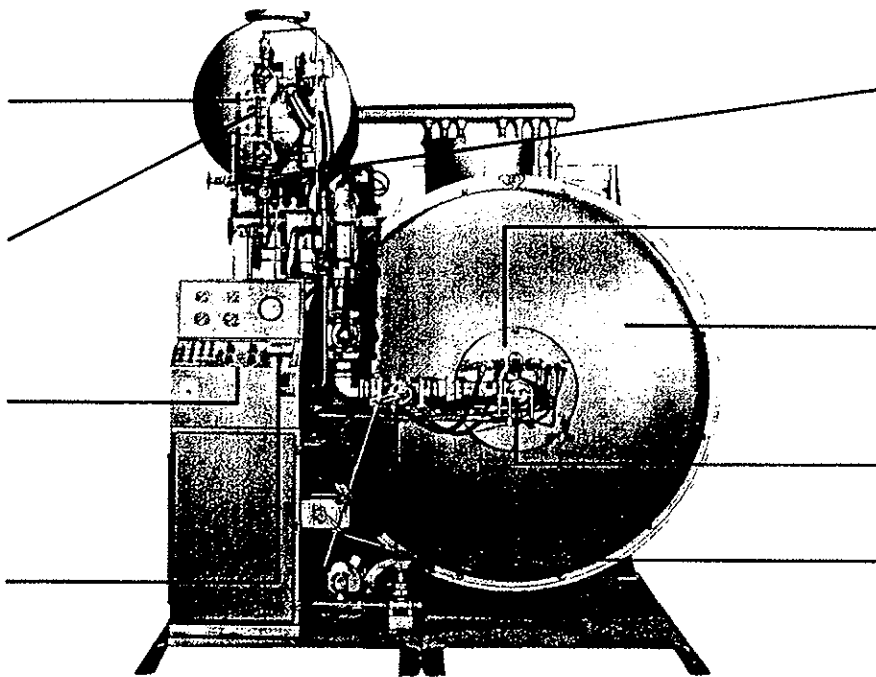
The reflex type gauge gives maximum safety and reliability.

### Switch/Gauge Panel

Switch controls are designed for ease of operation. The many warning lights assist with trouble shooting.

### Digital Readout

Instant reference for coil, stack and economizer temperatures.



**Surface Blowdown**  
Additional control of chemical levels.

### Burner

Available for natural gas, light oil or combination firing.

### Combustion Chamber

High temp. kiln fired refractory for maximum life.

### Oil Nozzle

Change fuel in a matter of minutes.

### Flow Control Valves

Infinite adjustment for both gas and oil.

### Coil Temp. Sensors

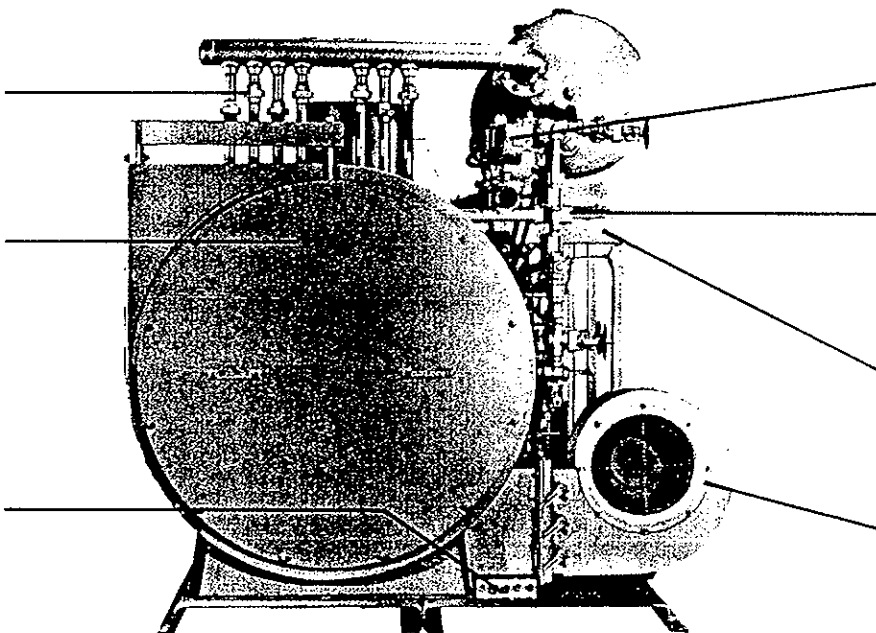
Monitor each individual coil outlet temperature, and provides safety shut-down.

### Inner Target Door

Rear door may be removed for inspection, without disturbing refractory seal.

### Connection Point

Most service connections are located at common point. This can be custom positioned to suit your installation.



### Electrical Connection

All electrical wiring in liquid tight conduits.

### Feedwater Mod. Control

Direct coupled modulating valve, for positive response to water level control.

### Junction Box

Oil/dust tight enclosure provides access to terminal strip for trouble shooting.

### Blower

Dynamically balanced, direct drive blower eliminates belt drives. Easily accessible for cleaning. Blower silencer available as option.

### Steam Separation Drum

Separates steam from water, guaranteeing 99% plus quality dry steam over full modulating range.

### Gas Train

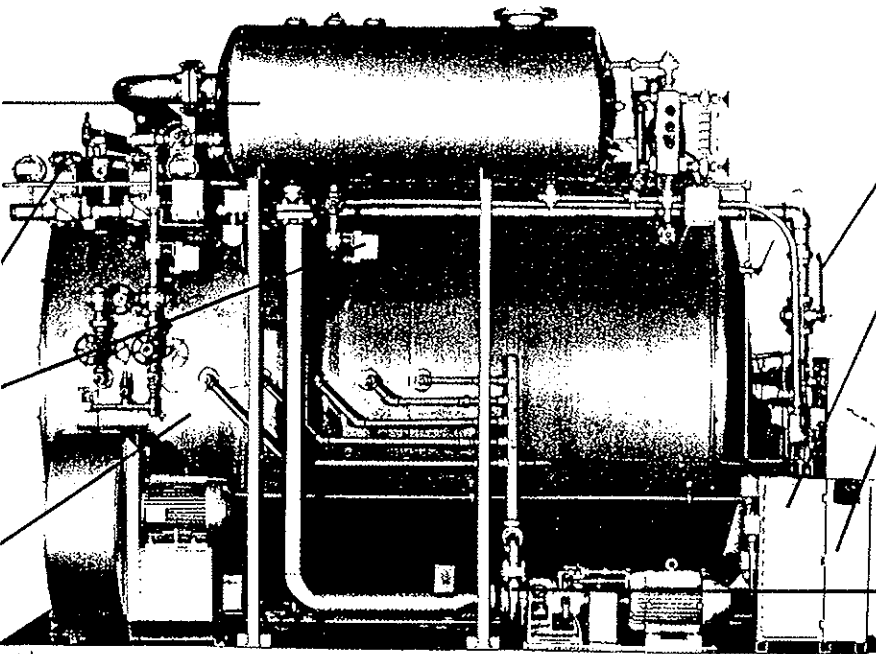
Built to conform to C.G.A. standards. Also available with I.R.I. and F.M.

### Automatic Blowdown

Available with either electric or pneumatic actuators.

### Shell

Double wall, air cooled over entire length. Combustion air cools outer shell and is thus pre-heated.



### Operating and Safety Controls

Very accessible for both adjustment and checking.

### Side Control Panel

All high voltage components are mounted in separate, lockable control panel.

### Control Panel

Layout and terminal strips optimized for easy trouble shooting.

### Circulating Pump

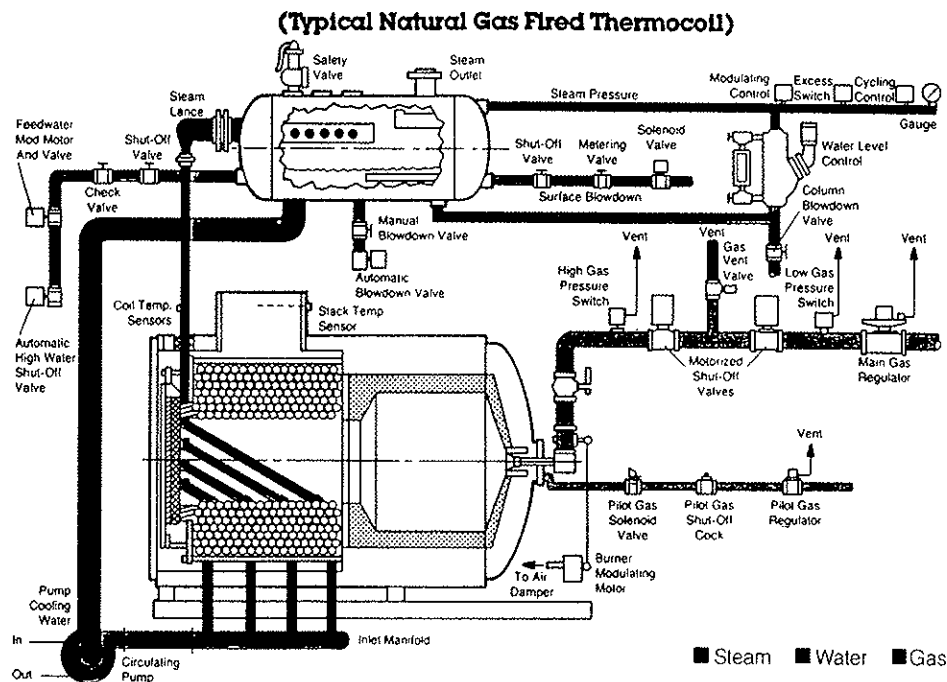
Direct Drive through coupling eliminates drive belts. Located for ease of packing adjustment and replacement.

# Thermocoil operates automatically, efficiently & safely . . .

The THERMOCOIL utilizes the well proven concept of the forced recirculating, multi-coil design for coiled tube steam generators. A Centrifugal pump forces water from the drum through the coils. Hot combustion gases wipe over the outer surfaces of the coils counter to the turbulent flow of water inside, thus producing the highest heat transfer efficiency possible.

Wet Steam is forced from the coils through the outlet manifold and into the drum, via the steam lance. The drum has three main functions:

- 1 - Steam Separator** - the baffle arrangement provides for separation giving 99%+ quality steam.
- 2 - Reservoir** - for pre-heated water from which the coils are fed. Water level is controlled automatically.
- 3 - Sludge settling chamber** - Sludge or sediment is removed through an automatic blowdown valve.



## Technical Data

**Type of Boiler** - Forced Circulation, Multiple Parallel Coil, Tube Type, Forced Draft Fired

**Efficiency** - Up to 85% with Economizers

**Gas Burner** - Multi-orificed by Thermogenics Inc.

**Oil Burner** - Air Atomized by Thermogenics Inc.

**Combination Burner** - Air Atomized Oil, Multi-orificed Gas by Thermogenics Inc.

**Type of Ignition** - Electric Spark Ignited, Interrupted Gas Pilot

**Safety Controls** - Programmed Flame Safeguard Control with Ultra Violet Flame Detection, Individual Visual Coil Temp Control, Low and High Water Control, Steam Pressure Control.

**Construction** - Canadian Registered to ASME Requirements, Fuel Safety Branch and Hydro Approved. Other Special Insurance Approvals Available Upon Request at Additional Cost.

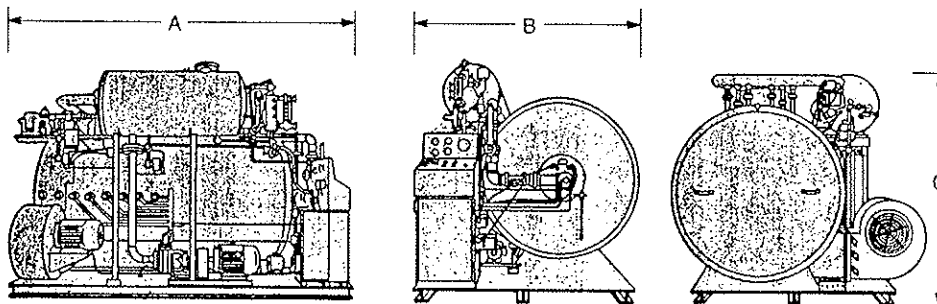
**Operating Pressures** - 5 - 450 PSIG - Specify

**Optional Equipment** - Integral Feedwater Economizer, External Economizer, Multiple Boiler Sequencing Controls.

## Performance Data & Sizes & Dimensions\*

RATED BOILER CAPACITY B.H.P.	EQUIVALENT EVAPORATION PPH FROM & AT 212°F	THERMAL OUTPUT BTU/HR (KCAL/HR) x 1000	FLUE OUTLET CONNECTION INCHES (mm)	APPROXIMATE FUEL CONSUMPTION		DIMENSIONS INCHES (mm)			OPERATING WATER CAPACITY GALS (Ltrs)	APPROXIMATE SHIPPING WEIGHT LBS (Kg)
				NATURAL GAS SCFH	#2 FUEL OIL GPH (Ltrs/Hr)	L (A)	W (B)	H (C)		
75	2,587	2511 (633)	12 (305)	3,300	20 (91)	114 (2896)	94 (2388)	96 (2438)	18.00 (82)	6000 (2721)
100	3,450	3348 (844)	14 (356)	4,400	25 (114)	114 (2896)	94 (2388)	96 (2438)	20.5 (93)	6,600 (2994)
150	5,175	5021 (1265)	16 (406)	6,600	38 (173)	120 (3048)	94 (2388)	100 (2540)	23.2 (105)	8400 (3810)
200	6,900	6695 (1687)	18 (457)	8,800	50 (227)	131 (3327)	100 (2540)	110 (2794)	33.4 (152)	11,000 (4,990)
250	8,625	8369 (2109)	20 (508)	11,000	63 (286)	131 (3327)	100 (2540)	110 (2794)	37.6 (171)	13,300 (6,033)
300	10,350	10,043 (2531)	24 (610)	13,200	75 (341)	138 (3505)	100 (2540)	110 (2794)	41.4 (188)	14,200 (6,441)
350	12,075	11,717 (2953)	24 (610)	15,500	88 (400)	160 (4064)	102 (2590)	110 (2794)	46.6 (212)	16,900 (7,666)
400	13,800	13,391 (3,374)	24 (610)	17,700	100 (455)	164 (4166)	124 (3150)	124 (3150)	49.5 (225)	28,500 (12,928)
500	17,250	16,738 (4,218)	26 (660)	21,667	125 (568)	176 (4470)	126 (3200)	124 (3150)	62 (282)	32,000 (14,515)
600	20,700	20,086 (5,062)	28 (711)	26,000	150 (682)	188 (4775)	126 (3200)	124 (3150)	74.4 (338)	35,800 (16,239)

\*Subject to change without notice. Oil fired available for #2 and diesel oil only



MANUFACTURED IN CANADA BY:

**THERMOGENICS INC**  
 6 SCANLON COURT, AURORA, ONTARIO L4G 3G9  
 Tel: (905) 727-1901 • Fax: (905) 727-8656





# THERMOGENICS INC.

- Boiler Sales & Service
- Steam Control Systems
- Coiled Boiler Specialists
- Heat Recovery Equipment

March 19, 1998



FAX TRANSMISSION - 905-349-6666

Medical Waste Management  
c/o The Saxton Group  
5515 North Service Rd. #300  
Burlington, Ontario L7L 6G4

Attention: Dan Kennedy

Dear Dan:

We appreciate the opportunity to propose the supply of the following equipment:

## THERMOGENICS PROPOSAL NO.98-03-105

One (1) Only "Reconditioned" THERMCOIL Packaged Horizontal Recirculation Type Automatic Coiled Tube Steam Boiler (s) rated at 200 BHP and each having a maximum equivalent output capacity of 6,900 LBS/HR of 99% plus quality dry steam from and at 212 degrees F.

The boiler will be reconditioned in accordance with the ASME Code and will be Canadian registered and field approved by the C.G.A. and Ontario Hydro. The unit contains a nominal water content of 33.4 Imperial Gallons. The boiler will have a design pressure rating of 150 PSIG for operation at 125 PSIG. The steam safety valve will be preset to lift at 150 PSIG. The boiler will be factory assembled and tested on common elevated steel skids and will be complete with bolt down holes on the skids. The multiple identical sectioned parallel connected coil bundle assemblies are of a single pass counter flow principle to allow for expansion and contraction without damage to the boiler.

The boiler (s) will be complete with a single stage centrifugal re-circulation water pump having a standard graphite type packing arrangement and requiring cooling water for pump jacket and stuffing box cooling. The boiler (s) will be equipped with modulating feedwater control, automatic adjustable timer operated steam drum blowdown control and continuous surface blowdown lance and manual adjustable metering valve. The units will also be fitted with common belt driven forced draft combustion blower of a backward pitched centrifugally balanced type and circulating pump. The burner will be of a fully modulating type having a turndown ratio of 7:1 without burner cycling. The boiler will be fitted with approved steam safety valve low water cut-offs and a full compliment of operating and safety controls. Each coil bundle will be fitted with thermocouples for monitoring of tube temperature and interlocked with an individual coil shut down control in the event of high coil temperature.

6 Scanlon Court, Aurora, Ontario L4G 3G9 Telephone (905) 727-1901 Fax: (905) 727-8656



The burner will be for combination natural gas and No. 2 fuel oil firing requiring 3-5 PSIG gas pressure at boiler connection and requiring a supply of compressed air for fuel oil atomization. The burner is of a forced draft power type and all combustion air will be preheated from the double shell casing for optimum efficiency.

The boiler (s) will be equipped with electric spark ignition and interrupted gas pilot, ultra violet flame detector and programming system having preset pre-purge, pilot trial and main flame trials.

### WARRANTY

Thermogenics Inc. will repair or replace F.O.B. factory any part of this equipment which, within twelve months of the date of shipment from factory, is found to be defective in workmanship or material, provided this equipment is installed, operated and maintained by the buyer in accordance with approved practices, and on the provision that the buyer gives proper notification in writing as soon as the defect becomes apparent. This warranty does not cover damage or failures that can be attributed to corrosion, scale or dirt accumulations, or to low water conditions. This warranty does not include on site labour charges of any kind. Follow maintenance instructions as listed in the "Instruction Manual".

Controls, motors, feedwater pumps, auxiliaries, accessories, and parts manufactured by others are warranted by Thermogenics Inc., to the extent of the warranty given to us by the manufacturers of such parts. We endeavor to use national known controls of the highest quality and the manufacturer's sole judgment shall determine the extent of the allowance for or replacement of such parts claimed defective.



### SPECIFICATIONS EACH UNIT

Original Manufacturer	-	THERMOGENICS INC.
Reconditioned By	-	Thermogenics Inc.
Type	-	Horizontal Multiple Parallel Coiled Tube
Rating	-	200 BHP
Thermal Output	-	6,700,000 BTU/HR
Equivalent Output	-	6,900 LBS/HR from and at 212° F
Nominal Water Content	-	33.4 Imperial Gallons
Design Pressure	-	150 PSIG
Operating Pressure	-	125 PSIG
Safety Valve (s) Setting	-	150 PSIG
Feedwater Controller	-	Modulating
Circulation Pump	-	Centrifugal - Single Stage Type
Main Voltage	-	575/3/60
Control Voltage (transformation provided)	-	120/1/60
Fuel	-	Natural Gas (3-5 PSIG Req'd. at Inlet to Boiler Gas Reg.) and #2 fuel oil
Burner Modulation	-	7:1 Turndown
Efficiency	-	80% Minimum
Forced Draft Fan	-	Centrifugal Backward Pitched
Fan Drive	-	Belt Driven
Continuous Surface Blowdown	-	Included
Feedwater Inlet Connection	-	1 1/4" NPT
Steam Outlet Connection	-	4" ASA
Stack Outlet Connection	-	18" O.D.
Overall Dimensions	-	100" Long x 88" Wide x 102" High
Approximate Shipping Weight	-	11,000 Pounds

### THE BOILER(S) WILL INCLUDE THE FOLLOWING SAFEGUARDS

- Flame Failure Protection
- Steam Pressure Control
- Excess Steam Pressure Control
- Low Water Protection
- Combustion Air Protection
- Excess Flue Gas Temperature Protection
- Individual Visual Coil Temperature Protection
- Three Phase Motor Over-Load Protection
- Control Panel Voltage Protection

STACK EXHAUST INFO RE: THERMOCOILS

DETAILS OF COMBUSTION EQUIPMENT

BOILER H.P.	200	300	350	400	500	600
FUEL	NATURAL GAS					
MAXIMUM HEAT INPUT (KJ/HR)	9,284,000	13,926,000	16,352,500	18,673,500	22,858,000	27,430,000
MAXIMUM GAS INPUT (M <sup>3</sup> /HR)	249	374	439	501	613	736
BURNER CONTROLS	AUTOMATIC / MODULATING					
STACK INSIDE DIAMETER (M)	0.46	0.60	0.60	0.60	0.66	0.71
STACK GASES VOLUME (ACTUAL M <sup>3</sup> /SEC)	1.6	2.4	2.86	3.18	3.98	4.77
ESTIMATED TEMP. OF EXHAUST AT STACK EXIT AT RATED OUTPUT (°C)	280	275	285	280	275	280
STACK EXIT VELOCITY AT RATED OUTPUT (M/SEC)	9.63	8.50	10.14	11.28	11.63	12.10
STACK EMISSIONS CO NOx SOx	LESS THAN 400 PPM LESS THAN 90 PPM NIL					



**Appendix M**  
**MWM Brampton Facility Effluent Monitoring Data**

Region of Peel  
Working for you

ENFORCEMENT REPORT

Regional Municipality of Peel  
Environmental Control  
3515 Wolfedale Road  
Mississauga, Ontario  
L5C 1V8  
(905) 791-7800 ext. 3101

Sample Type: Gx  
SX: Surchage  
MX: Monitoring  
GX: Grab

LWM: 8941  
Inspector Reference: E  
Region Reference: 34769  
Outside Reference:  
Priority:  
Special Request Information:

Company Name and Mailing Address

Medical Waste Management  
95 Deerhurst Drive  
Brampton  
ON L6T 5R7

Attn: Dan Kennedy

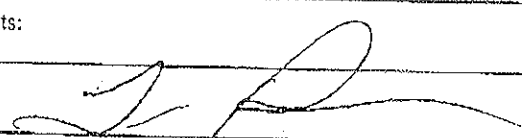
Sample Address (if different from above)

Sampling Period  
Start Date:  
Start Time:  
End Date:  
End Time:  
Aliquot Frequency:  
Grab Date: May 10, 2004  
Grab Time: 10:08  
Sample Location: manhole  
Sample Submitted: May 10, 2004

TEST PARAMETER	RESULT	UNITS	BY-LAW LIMIT
METALS-Aluminum, Al	0.375	mg/l	50
METALS-Cadmium, Cd	0.003	mg/l	1
METALS-Chromium, Cr	<0.013	mg/l	5
METALS-Copper, Cu	0.057	mg/l	3
METALS-Iron, Fe	0.510	mg/l	50
METALS-Lead, Pb	0.705	mg/l	5
METALS-Nickel, Ni	<0.007	mg/l	3
METALS-Zinc, Zn	2.49	mg/l	3
TKN II, Titrimetric	3.56	mg/l	100
Total Suspended Solids	17.8	mg/l	350
pH	8.1	pH units	5.5 TO 9.5

Sampler's Comments : turbid/32.3 C

Inspector's Comments:

Reviewed by: 

Date: 07/26/05

Note: ND - Not Detected.



**POLLUTION CONTROL SEWER USE BY-LAW  
ENFORCEMENT REPORT**

Regional Municipality of Peel  
Environmental Control  
3515 Wolfedale Road  
Mississauga, Ontario  
L5C 1V8  
(905) 791-7800 ext. 3101

Sample Type: Gx LVM: 8941  
SX: Surchage Inspector Reference: E  
MX: Monitoring Region Reference: 35794  
GX: Grab Outside Reference:  
Priority:  
Special Request Information:

Company Name and Mailing Address

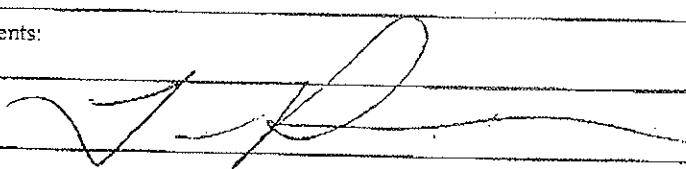
Medical Waste Management  
95 Deerhurst Drive  
Brampton  
ON L6T 5R7

Attn: Dan Kennedy

Sample Address (if different from above)

Sampling Period  
Start Date:  
Start Time:  
End Date:  
End Time:  
Aliquot Frequency:  
Grab Date: Jun 14, 2004  
Grab Time: 10:41  
Sample Location: manhole  
Sample Submitted: Jun 14, 2004

TEST PARAMETER	RESULT	UNITS	BY-LAW LIMIT
Carbonaceous BOD	69.0	mg/l	300
METALS-Aluminum, Al	0.073	mg/l	50
METALS-Cadmium, Cd	<0.003	mg/l	1
METALS-Chromium, Cr	<0.013	mg/l	5
METALS-Copper, Cu	0.011	mg/l	3
METALS-Iron, Fe	0.389	mg/l	50
METALS-Lead, Pb	<0.031	mg/l	5
METALS-Nickel, Ni	<0.007	mg/l	3
METALS-Zinc, Zn	0.105	mg/l	3
TKN II, Titrimeric	8.40	mg/l	100
Total Suspended Solids	71.5	mg/l	350
pH	8.3	pH units	5.5 TO 9.5

Sampler's Comments :	turbid yellow		
Inspector's Comments:			
Reviewed by:			
	Yr	Mo	Day
	Date:	24 07 14	

Note: ND = Not Detected.

**Region of Peel**  
Working for you.

**POLLUTION CONTROL SEWER USE BY-LAW  
ENFORCEMENT REPORT**

Regional Municipality of Peel  
Environmental Control  
515 Wolfedale Road  
Mississauga, Ontario  
L5C 1V8  
(905) 791-7800 ext. 3101

Sample Type: GX  
SX: Surchage  
MX: Monitoring  
GX: Grab

LWM: 8941  
Inspector Reference: E  
Region Reference: 37545  
Outside Reference:  
Priority:  
Special Request Information:

Company Name and Mailing Address

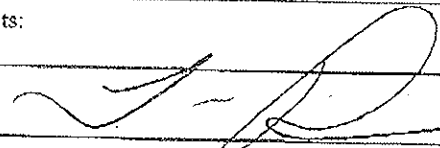
Medical Waste Management  
95 Deerhurst Drive  
Brampton  
ON L6T 5R7

Attn: Dan Kennedy

Sample Address (if different from above)

Sampling Period  
Start Date:  
Start Time:  
End Date:  
End Time:  
Alliquot Frequency:  
Grab Date: Aug 17, 2004  
Grab Time: 09:56  
Sample Location: Sampling Manhole  
Sample Submitted: Aug 17, 2004

TEST PARAMETER	RESULT	UNITS	BY-LAW LIMIT
Carbonaceous BOD	293	mg/l	300
METALS-Aluminum, Al	0.096	mg/l	50
METALS-Cadmium, Cd	0.003	mg/l	1
METALS-Chromium, Cr	<0.013	mg/l	5
METALS-Copper, Cu	0.019	mg/l	3
METALS-Iron, Fe	0.360	mg/l	50
METALS-Lead, Pb	<0.031	mg/l	5
METALS-Nickel, Ni	0.024	mg/l	3
METALS-Zinc, Zn	0.785	mg/l	3
TKN1, Colourimetric	37.4	mg/l	100
Total Suspended Solids	83.3	mg/l	350
pH	6.9	pH units	5.5 TO 9.5

Sampler's Comments :	LIGHT GREY, TURBID		
Inspector's Comments:			
Reviewed by:			
	Yr	Mo	Day
	Date:	09 09 13	

Note: ND = Not Detected.





**POLLUTION CONTROL SEWER USE BY-LAW  
ENFORCEMENT REPORT**

Regional Municipality of Peel  
Environmental Control  
3515 Wolfedale Road  
Mississauga, Ontario  
L5C 1V8  
(905) 791-7800 ext. 3101

Sample Type: GX  
SX: Surchage  
MX: Monitoring  
GX: Grab

LWM: 8941  
Inspector Reference: E  
Region Reference: 38038  
Outside Reference:  
Priority:  
Special Request Information:

**Company Name and Mailing Address**

Medical Waste Management  
95 Deerhurst Drive  
Brampton  
ON L6T 5R7

Attn: Dan Kennedy

Sample Address (if different from above)

Sampling Period  
Start Date:  
Start Time:  
End Date:  
End Time:  
Aliquot Frequency:  
Grab Date: Sep 1, 2004  
Grab Time: 12:18  
Sample Location: Sampling Manhole  
Sample Submitted: Sep 1, 2004

TEST PARAMETER	RESULT	UNITS	BY-LAW LIMIT
METALS-Aluminum, Al	1.04	mg/l	50
METALS-Cadmium, Cd	<0.003	mg/l	1
METALS-Chromium, Cr	<0.013	mg/l	5
METALS-Copper, Cu	0.013	mg/l	3
METALS-Iron, Fe	3.36	mg/l	50
METALS-Lead, Pb	0.052	mg/l	5
METALS-Nickel, Ni	<0.007	mg/l	3
METALS-Zinc, Zn	0.744	mg/l	3
TKN I, Colourimetric	11.0	mg/l	100
Total Suspended Solids	214	mg/l	350
pH	8.2	pH units	5.5 TO 9.5

Sampler's Comments :	SLIGHTLY TURBID GREY
Inspector's Comments:	
Reviewed by:	
	Yr Mo Day Date: 04 09 27

Note: ND = Not Detected.



**POLLUTION CONTROL SEWER USE BY-LAW  
ENFORCEMENT REPORT**

Regional Municipality of Peel  
Environmental Control  
3515 Wolfedale Road  
Mississauga, Ontario  
L5C 1V8  
(905) 791-7800 ext. 3101

Sample Type: **EX**  
SX: Surchage  
MX: Monitoring  
GX: Grab

LWM: 8941  
Inspector Reference: E  
Region Reference: 42790  
Outside Reference:  
Priority:  
Special Request Information:

**Company Name and Mailing Address**

Medical Waste Management  
95 Deerhurst Drive  
Brampton  
ON L6T 5R7

Attn: Dan Kennedy

Sample Address (if different from above)

Sampling Period  
Start Date:  
Start Time:  
End Date:  
End Time:  
Aliquot Frequency:  
Grab Date: Feb 14, 2005  
Grab Time: 12:01  
Sample Location: sampling manhole  
Sample Submitted: Feb 14, 2005

TEST PARAMETER	RESULT	UNITS	BY-LAW LIMIT
Carbonaceous BOD	11.4	mg/l	300
METALS-Aluminum, Al	0.28	mg/l	50
METALS-Cadmium, Cd	0.058	mg/l	1
METALS-Chromium, Cr	0.016	mg/l	5
METALS-Copper, Cu	0.063	mg/l	3
METALS-Iron, Fe	0.3	mg/l	50
METALS-Lead, Pb	0.80	mg/l	5
METALS-Nickel, Ni	0.020	mg/l	3
METALS-Zinc, Zn	2.4	mg/l	3
TKN II, Titrimetric	3.33	mg/l	100
Total Suspended Solids	27.0	mg/l	350
pH	9.5	pH units	5.5 TO 9.5

Sampler's Comments:	slightly turbid		
Inspector's Comments:			
Reviewed by:			Date: 05/02/2008

Note: ND = Not Detected.



**POLLUTION CONTROL SEWER USE BY-LAW ENFORCEMENT REPORT**

Regional Municipality of Peel  
 Environmental Control  
 3515 Wolfedale Road  
 Mississauga, Ontario  
 L5C 1V8  
 (905) 791-7800 ext. 3101

Sample Type: GX  
 SX: Surchage  
 MX: Monitoring  
 GX: Grab

LWM: 8941  
 Inspector Reference: E  
 Region Reference: 44531  
 Outside Reference:  
 Priority:  
 Special Request Information:

**Company Name and Mailing Address**

Medical Waste Management  
 95 Deerhurst Drive  
 Brampton  
 ON L6T 5R7

Attn: Dan Kennedy


Sample Address (if different from above)

Sampling Period  
 Start Date:  
 Start Time:  
 End Date:  
 End Time:  
 Aliquot Frequency:  
 Grab Date: May 3, 2005  
 Grab Time: 11:23  
 Sample Location: Sampling Manhole  
 Sample Submitted: May 3, 2005

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TEST PARAMETER	RESULT	UNITS	BY-LAW LIMIT
Carbonaceous BOD	18.8	mg/l	300
METALS-Aluminum, Al	0.766	mg/l	50
METALS-Cadmium, Cd	<0.004	mg/l	1
METALS-Chromium, Cr	0.010	mg/l	5
METALS-Copper, Cu	0.056	mg/l	3
METALS-Iron, Fe	1.13	mg/l	50
METALS-Lead, Pb	0.346	mg/l	5
METALS-Nickel, Ni	0.063	mg/l	3
METALS-Zinc, Zn	0.864	mg/l	3
TKN II, Titrimetric	1.68	mg/l	100
Total Suspended Solids	19.3	mg/l	350
pH	8.4	pH units	5.5 TO 9.5

Sampler's Comments :	GREY, TURBID
Inspector's Comments:	
Reviewed by:	 Yr Mo Day Date: 05/05/19

Note: ND = Not Detected.



**POLLUTION CONTROL SEWER USE BY-LAW  
ENFORCEMENT REPORT**

Regional Municipality of Peel  
Environmental Control  
3515 Wolfedale Road  
Mississauga, Ontario  
L5C 1V8  
(905) 791-7800 ext. 3101

Sample Type: EX  
SX: Surchage  
MX: Monitoring  
GX: Grab

LWM: 8941  
Inspector Reference: E  
Region Reference: 45399  
Outside Reference:  
Priority:  
Special Request Information:

**Company Name and Mailing Address**

Medical Waste Management  
95 Decrhurst Drive  
Brampton  
ON L6T 5R7

Sampling Period  
Start Date:  
Start Time:  
End Date:  
End Time:  
Allquot Frequency:

Attn: Dan Kennedy

Grab Date: Jun 1, 2005  
Grab Time: 11:36  
Sample Location: sampling manhole  
Sample Submitted: Jun 1, 2005

Sample Address (if different from above)

TEST PARAMETER	RESULT	UNITS	BY-LAW LIMIT
Carbonaceous BOD	41.6	mg/l	300
METALS-Aluminum, Al	1.50	mg/l	50
METALS-Cadmium, Cd	0.005	mg/l	1
METALS-Chromium, Cr	0.010	mg/l	5
METALS-Copper, Cu	0.060	mg/l	3
METALS-Iron, Fe	0.439	mg/l	50
METALS-Lead, Pb	0.324	mg/l	5
METALS-Nickel, Ni	0.016	mg/l	3
METALS-Zinc, Zn	1.82	mg/l	3
TKN II, Titrimetric	4.23	mg/l	100
Total Suspended Solids	38.0	mg/l	350
pH	8.1	pH units	5.5 TO 9.5

Sampler's Comments :	clear
Inspector's Comments:	
Reviewed by:	<i>K. Parles</i>
Date:	Yr Mo Day 06 / 20

Note: ND - Not Detected.

**Appendix N**  
**Traffic Data for Wright Avenue Supplied by HRM**

## MANUAL TRAFFIC COUNTS

INTERSECTION: BANCROFT LANE AT WINDMILL ROAD AND WRIGHT AVENUE

DAY DATE MONTH YEAR WEATHER RECORDER OVERCAST  
J ARSENAULT

WED 2 JUNE 2004

STREET: TIME: 15 MIN INTERVALS		WRIGHT AVENUE			BANCROFT LANE			WINDMILL ROAD			WINDMILL ROAD			TOTAL
		FROM THE EAST			FROM THE WEST			FROM THE NORTH			FROM THE SOUTH			
		L	S	R	L	S	R	L	S	R	L	S	R	
07:30 AM	07:45 AM	52	2	22	5	2	5	127	455	3	13	327	150	1163
07:45 AM	08:00 AM	68	5	17	4	9	5	134	502	7	9	389	171	1320
08:00 AM	08:15 AM	69	1	33	5	7	7	100	433	7	6	251	121	1040
08:15 AM	08:30 AM	74	0	24	5	6	5	89	383	4	8	317	99	1014

TOTAL	263	8	96	19	24	22	450	1773	21	36	1284	541	4537
PEAK		367			65			2244			1861		
15 MIN PEAK		412			76			2572			2276		
PEAK HOUR FACTOR		0.89			0.86			0.87			0.82		PEAK HR
TWO WAY TOTALS		1382			130			3643			3919		FACTOR
													0.99
													4492

DAY DATE MONTH YEAR

TUES 1 JUNE 2004

TIME: 15 MIN INTERVALS		FROM THE EAST			FROM THE WEST			FROM THE NORTH			FROM THE SOUTH			TOTAL
		FROM THE EAST			FROM THE WEST			FROM THE NORTH			FROM THE SOUTH			
		L	S	R	L	S	R	L	S	R	L	S	R	
04:30 PM	04:45 PM	168	2	101	4	3	9	54	367	6	2	379	63	1158
04:45 PM	05:00 PM	154	0	126	4	3	3	43	407	1	4	458	65	1268
05:00 PM	05:15 PM	162	3	138	4	2	5	42	504	5	4	490	43	1402
05:15 PM	05:30 PM	158	4	117	6	2	6	23	504	1	2	529	37	1389

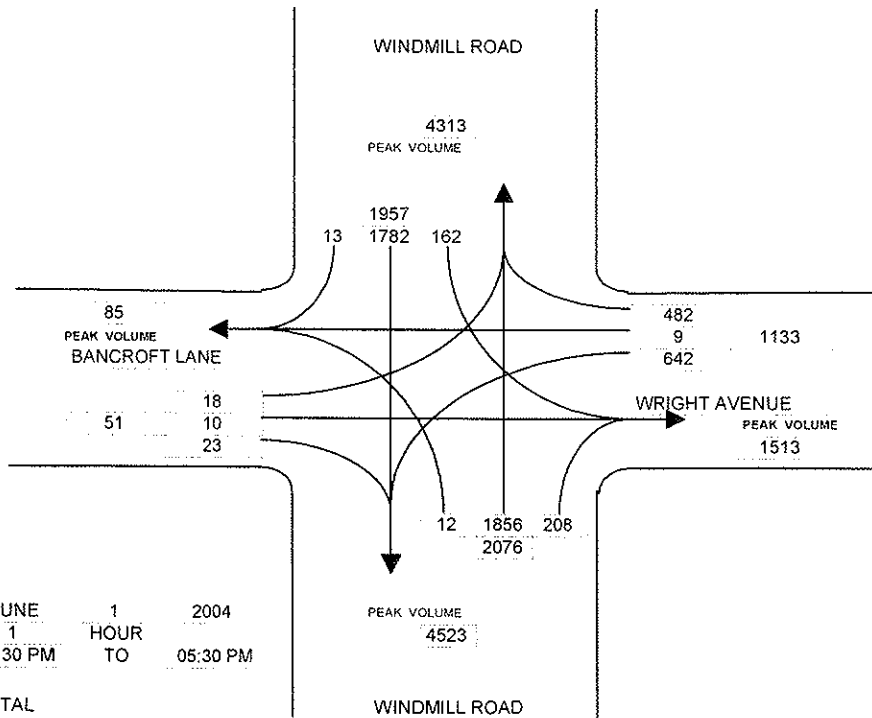
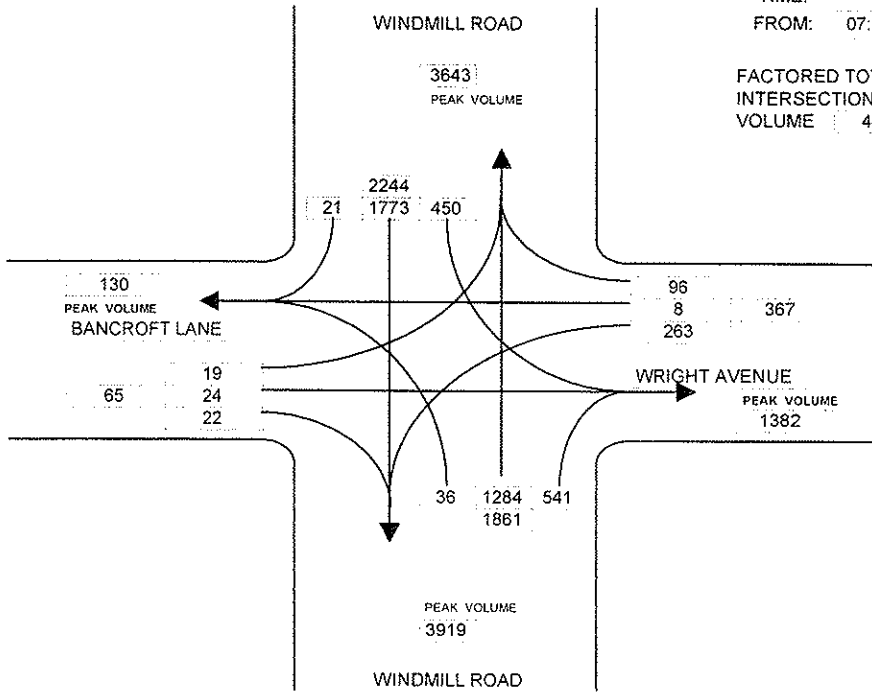
TOTAL	642	9	482	18	10	23	162	1782	13	12	1856	208	5217
PEAK		1133			51			1957			2076		
15 MIN PEAK		1212			64			2204			2272		
PEAK HOUR FACTOR		0.93			0.8			0.89			0.91		PEAK HR
TWO WAY TOTALS		1513			85			4313			4523		FACTOR
													0.99
													5165

# VEHICULAR GRAPHIC SUMMARY SHEET

INTERSECTION : BANCROFT LANE AT WINDMILL ROAD AND WRIGHT AVENUE

DATE: JUNE 2 2004  
 TIME: 1 HOUR  
 FROM: 07:30 AM TO 08:30 AM

FACTORED TOTAL INTERSECTION APPROACH VOLUME 4492



DATE: JUNE 1 2004  
 TIME: 1 HOUR  
 FROM: 04:30 PM TO 05:30 PM

FACTORED TOTAL INTERSECTION APPROACH VOLUME 5165

## MANUAL TRAFFIC COUNTS

INTERSECTION: MACDONALD AVENUE AT WRIGHT AVENUE

WEATHER SUNNY  
 RECORDER MC

DAY DATE MONTH YEAR  
TUES 27 MAY 2003

STREET: TIME: 15 MIN INTERVALS		WRIGHT AVENUE			WRIGHT AVENUE			FROM THE NORTH			MACDONALD AVENUE			TOTAL
		FROM THE EAST			FROM THE WEST			FROM THE NORTH			FROM THE SOUTH			
		L	S	R	L	S	R	L	S	R	L	S	R	
07:35 AM	07:50 AM	21	70	0	0	171	118	0	0	0	25	0	15	420
07:50 AM	08:05 AM	16	65	0	0	160	119	0	0	0	16	0	9	385
08:05 AM	08:20 AM	23	77	0	0	142	108	0	0	0	27	0	26	403
08:20 AM	08:35 AM	32	70	0	0	154	97	0	0	0	25	0	25	403

TOTAL	92	282	0	0	627	442	0	0	0	93	0	75	1611
PEAK	374			1069			0			168			
15 MIN PEAK	408			1156			0			212			
PEAK HOUR FACTOR	0.92			0.92			0			0.79			PEAK HR
TWO WAY TOTALS	1076			1444			0			702			FACTOR
													1.02
													1643

DAY DATE MONTH YEAR  
MON 26 MAY 2003

TIME: 15 MIN INTERVALS		FROM THE EAST			FROM THE WEST			FROM THE NORTH			FROM THE SOUTH			TOTAL
		L	S	R	L	S	R	L	S	R	L	S	R	
05:00 PM	05:15 PM	22	295	0	0	54	18	0	0	0	55	0	88	532
05:15 PM	05:30 PM	18	123	0	0	46	15	0	0	0	52	0	24	278
05:30 PM	05:45 PM	7	86	0	0	49	23	0	0	0	45	0	15	225
05:45 PM	06:00 PM	11	51	0	0	27	10	0	0	0	31	0	13	143

TOTAL	58	555	0	0	176	66	0	0	0	183	0	140	1178
PEAK	613			242			0			323			
15 MIN PEAK	1268			288			0			572			
PEAK HOUR FACTOR	0.48			0.84			0			0.56			PEAK HR
TWO WAY TOTALS	929			980			0			447			FACTOR
													1.03
													1213



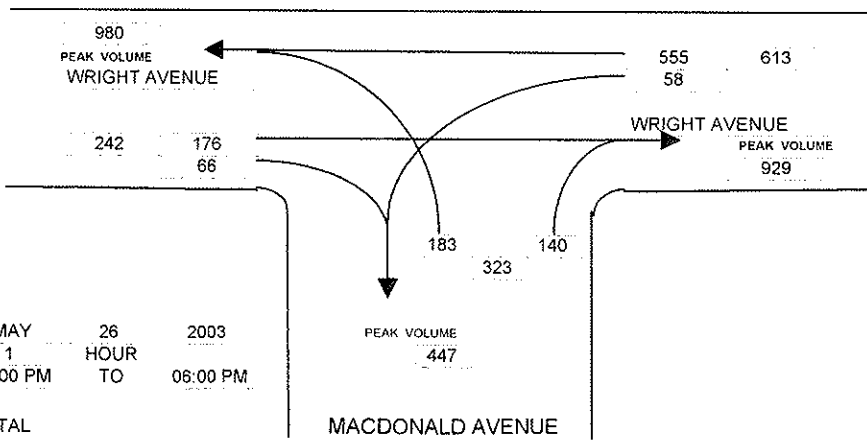
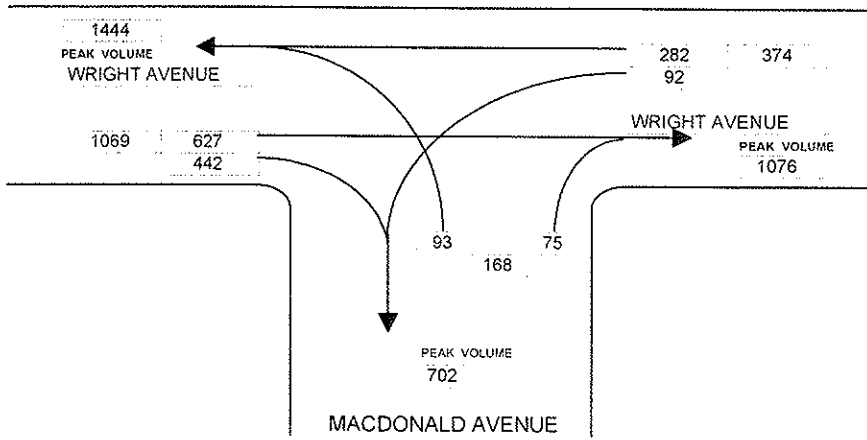
# VEHICULAR GRAPHIC SUMMARY SHEET

## MACDONALD AVENUE AT WRIGHT AVENUE

INTERSECTION :

DATE: MAY 27 2003  
 TIME: 1 HOUR  
 FROM: 07:35 AM TO 08:35 AM

FACTORED TOTAL  
 INTERSECTION APPROACH  
 VOLUME 1643



DATE: MAY 26 2003  
 TIME: 1 HOUR  
 FROM: 05:00 PM TO 06:00 PM

FACTORED TOTAL  
 INTERSECTION APPROACH  
 VOLUME 1213

## MANUAL TRAFFIC COUNTS

INTERSECTION: MACDONALD AVENUE AT WRIGHT AVENUE

WEATHER SUNNY  
 RECORDER MC

DAY DATE MONTH YEAR  
THURS 5 JUNE 2003

STREET: TIME: 15 MIN INTERVALS		MACDONALD AVENUE			FROM THE WEST			WRIGHT AVENUE			WRIGHT AVENUE			TOTAL
		FROM THE EAST			FROM THE NORTH			FROM THE SOUTH						
		L	S	R	L	S	R	L	S	R	L	S	R	
01:00 PM	01:15 PM	36	0	26	0	0	0	31	117	0	0	135	57	402
01:15 PM	01:30 PM	42	0	33	0	0	0	23	112	0	0	108	48	366
01:30 PM	01:45 PM	25	0	25	0	0	0	33	103	0	0	129	47	362
01:45 PM	02:00 PM	34	0	27	0	0	0	35	109	0	0	110	53	368

TOTAL	137	0	111	0	0	0	122	441	0	0	482	205	1498
PEAK		248			0			563			687		
15 MIN PEAK		300			0			592			768		
PEAK HOUR FACTOR		0.83			0			0.95			0.89		PEAK HR
TWO WAY TOTALS		575			0			1156			1265		FACTOR
													0.95
													1423

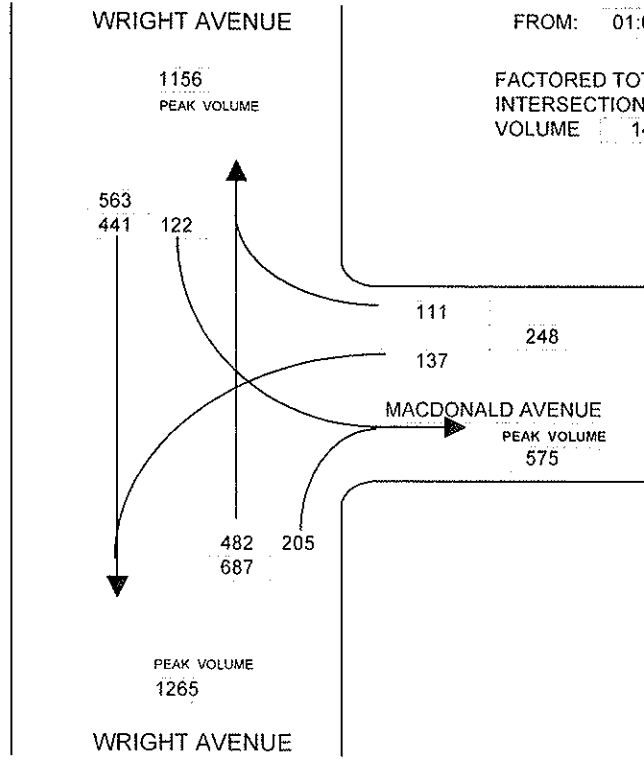
INTERSECTION :

# VEHICULAR GRAPHIC SUMMARY SHEET

## MACDONALD AVENUE AT WRIGHT AVENUE

DATE: JUNE 5 2003  
TIME: 1 HOUR  
FROM: 01:00 PM TO 02:00 PM

FACTORED TOTAL  
INTERSECTION APPROACH  
VOLUME 1423



HALIFAX REGIONAL MUNICIPALITY  
PUBLIC WORKS & TRANSPORTATION  
TRAFFIC & TRANSPORTATION SERVICES  
1-902-490-4866

Station ID: # 1 E/B, # 2 TWO WAY  
WRIGHT AVENUE  
MCCURDY AVENUE & WINDMILL ROAD  
Latitude: 0' 0.000 Undefined

Civic Address: 40 Wright Avenue  
Counted by: JA & KC. Region: Eastern  
Traffic Counter #: Jamar 05105  
AAWT: 15879 two way, 8515 e/b, 7364 w/b

Site Code: 2004SP058

Start Time	Tue		Wed		Thu		Fri		Sat		Sun		Week Average	
	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel	Channel
12:00 AM	*	*	*	*	*	*	*	*	32	91	14	48	23	70
01:00	*	*	*	*	*	*	*	22	58	8	28	15	43	
02:00	*	*	*	*	*	*	*	13	39	3	18	8	28	
03:00	*	*	*	*	*	*	*	8	17	2	6	5	12	
04:00	*	*	*	*	*	*	*	6	14	6	9	6	12	
05:00	*	*	*	*	*	*	*	16	22	7	9	12	16	
06:00	*	*	*	*	*	*	*	64	89	21	28	42	58	
07:00	*	*	*	*	*	*	*	169	223	39	56	104	140	
08:00	*	*	*	*	*	*	*	217	338	49	82	133	210	
09:00	*	*	*	*	*	*	*	268	454	70	122	169	288	
10:00	*	*	*	*	*	*	*	297	530	113	156	205	343	
11:00	*	*	*	*	*	*	*	315	620	71	124	193	372	
12:00 PM	*	*	*	*	*	*	*	354	697	94	158	224	428	
01:00	*	*	*	*	*	*	*	304	592	107	232	206	412	
02:00	*	*	*	*	*	*	*	272	563	82	160	177	362	
03:00	*	*	*	*	*	*	*	250	500	79	150	326	649	
04:00	*	*	*	*	650	1296	565	180	374	79	138	275	665	
05:00	*	*	*	*	352	1117	352	105	227	57	111	171	485	
06:00	*	*	*	*	182	447	182	88	157	78	145	116	250	
07:00	*	*	*	*	124	283	124	62	115	78	140	88	179	
08:00	*	*	*	*	99	203	99	50	84	55	100	68	129	
09:00	*	*	*	*	81	172	81	48	94	37	79	55	115	
10:00	*	*	*	*	64	119	64	34	75	30	67	43	87	
11:00	*	*	*	*	35	85	35	31	65	16	42	27	64	
Lane	0	0	0	0	0	0	0	2152	6038	1195	2208	2691	5417	
Day	0	0	0	0	0	0	7358	9243	3403	8108				
AM Peak								11:00	11:00	10:00	10:00	10:00	10:00	11:00
Vol.								315	620	113	156	205	372	
PM Peak								12:00	12:00	13:00	13:00	15:00	16:00	
Vol.								354	697	107	232	326	665	

