

CITY OF BURLINGTON

ENVIRONMENTAL MANAGEMENT COMMITTEE:

DATE OF MEETING: Friday, February 14, 1986

PLACE OF MEETING: Burlington Cultural Centre,
425 Brock Avenue, in Studio A
at 9:00 a.m.

A G E N D A

DISCLOSURES OF CONFLICT OF INTEREST:

DELEGATIONS:

None.

MATTERS FOR CONSIDERATION:

EM-11-86 Chief Administrative Officer's Report CAO-20/86
dated January 31, 1986 with respect to the costs
of the environmental consultants' services for
the period of October 1 - December 31, 1985.
File: 760-01

Pages 1 & 2

EM-12-86 Chief Administrative Officer's Report CAO-22/86
dated February 4, 1986 recommending that the
City of Burlington provide a grant of \$12,000 to
the West Burlington Citizens' Group for the
Environmental Assessment Act Hearing into the
Region of Halton's proposed permanent landfill
site(s).
File: 445-01

Pages 3 & 4

EM-13-86 Chief Administrative Officer's Report CAO-11/86
dated January 20, 1986 recommending that the
City's Environmental Management Co-ordinator
replace G. Vance as the City of Burlington staff
representative to the Burlington Landfill
Advisory Committee.
File: 760-04

Page 5

INFORMATION SECTION:

EM-14-86 Chief Administrative Officer's Report CAO-21/86
dated January 31, 1986 with respect to the
Bayview Park Conceptual Design Report - Leachate
Collection System and Land Requirements.
File: 760-04-1

Page 6

INFORMATION SECTION: (Continued)

EM-15-86 Correspondence dated January 21, 1986 from Conestoga-Rovers and Associates Limited informing the Environmental Management Committee of the results of the Seep Plugging Program at the Bayview Park Landfill Site.
File: 760-04-1

Pages 7-9

EM-16-86 Correspondence from L.F. Parsons, Planning Co-ordinator, Halton Peel District, Ministry of the Environment dated January 15, 1986 with respect to the Bayview Landfill Site:

1) Draft Terms of Reference 1986 Monitoring Program.

2) CRA Proposed Project Schedule - Leachate Collection System.

File: 760-04-1

Pages 10-12

EM-17-86 Notice from Energy, Mines and Resources Canada providing information on a workshop on project planning for energy from municipal waste to be held March 13 and 14 at the Downtown Holiday Inn, Toronto.
File: 120-01

Page 13

MATTER OF A CONFIDENTIAL NATURE:

EM-18-86 Discussion by the Environmental Management Committee and other Regional Councillors from Burlington of the City's strategy for dealing with forthcoming landfill search and approval activities.
File: 760-04

MATERIAL TO BE CIRCULATED UNDER SEPARATE COVER

ALDERMEN'S REMARKS:

ADJOURNMENT:

MATTERS FOR CONSIDERATION

Item No. **EM-11-86**

CITY OF BURLINGTON

C.A.O 20/86

January 31, 1986

Chairman and Members of the
Environmental Management Committee

Subject: Environmental Consultants Expenses to Date

RECOMMENDATION:

1. THAT the overexpenditure of \$48,241.67 in account number 770-0144 for Environmental Consultanting Expenses be recommended by the Environmental Management Committee to Council for approval.

REPORT:

Attached is a detailed spread sheet which gives a summary of the environmental consultants costs as of December 31, 1985. The previous balance reported to the Solid Waste Management Committee October 29, 1985 was \$126,180.88. As of December 31, 1985 the balance has increased to a total of \$198,241.67, resulting in a total of \$72,060.79 worth of expenditures since the last report. See attached for further information.

Respectfully Submitted


Michael H. Boggs
CHIEF ADMINISTRATIVE OFFICER

MHB:SC
3668u

APPROVED BY C.A.O. <i>E</i> MANAGEMENT COMMITTEE <i>Feb 4/86</i> Date

Distribution of Solid Waste Management
Consultants Expenses
January 1 - December 31, 1985
Last Update February 6, 1986
By: S Charaanduk

PROJECTS

CONSULTANTS	Fee/Disp	E.A. Review	Bayview Leachate	B.L.S. Trans Station	Other Yale Review	TOTALS
Ecoplans	fees	\$17937.00	\$3287.50	\$1520.00	\$249.00	\$22993.50
	disp	\$1486.42	\$259.24	\$153.30	\$0.00	\$1898.96
Conestoga Rovers	fees	\$71538.41	\$38308.24	\$0.00	\$0.00	\$109846.65
	disp	\$6292.00	\$8086.36	\$0.00	\$0.00	\$14378.36
Weir & Foulds	fees	\$18740.00	\$0.00	\$0.00	\$0.00	\$18740.00
	disp	\$599.74	\$0.00	\$0.00	\$0.00	\$599.74
McCormick Renkin & Assoc	fees	\$1773.01	\$0.00	\$0.00	\$0.00	\$1773.01
	disp	\$85.62	\$0.00	\$0.00	\$0.00	\$85.62
MacNaughton Ltd	fees	\$280.00	\$0.00	\$0.00	\$0.00	\$280.00
	disp	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
*Other Expenses	fees	\$0.00	\$5790.79	\$0.00	\$0.00	\$5790.79
	disp	\$3129.82	\$16845.32	\$1879.90	\$0.00	\$21855.04
TOTALS	fees	\$110268.42	\$47386.53	\$1520.00	\$249.00	\$159423.95
	disp	\$11593.60	\$25190.92	\$2033.20	\$0.00	\$38817.72
PROJECT TOTALS		\$121862.02	\$72577.45	\$3553.20	\$249.00	\$198241.67
Last Bal to SWMC Oct29/85		\$86339.91	\$36038.77	\$3553.20	\$249.00	\$126180.88
EXPENDITURES since Oct 29		\$35522.11	\$36538.68	\$0.00	\$0.00	\$72060.79

*These expenses include: Bayview Appraisal - Purchase of Video
cassettes - Staff meals and travel expenses - Seep Sealing support services done by the Public
NOTE: Additional Consultants have been hired but no invoices were received prior to December 31

-2-

EM-11-86

CITY OF BURLINGTON

C.A.O 22/86

February 4, 1986

Chairman and Members of the
Environmental Management Committee

Subject: Request for Grant of \$12,000 by
West Burlington Citizens' Group
for EA Hearing Preparation Expenses

RECOMMENDATION:

THAT the Corporation of the City of Burlington grant to the West Burlington Citizens' Group an allowance of up to \$12,000 to cover professional retainers, fees, and disbursements incurred in preparing and delivering its case at the forthcoming Environmental Assessment Act Hearing into the Region of Halton's proposed permanent landfill site(s);

AND THAT grant payments be made from Account 770-0144-3610 in the amounts of invoices for expenses incurred submitted to the Director of Finance.

REPORT:

At its meeting of February 1, 1986, the Community Services Grants Committee referred the \$12,000 grant request of the West Burlington Citizens' Group (WBCG) to staff for this report.

The following points taken from the Application Form and from its Brief summarize the WBCG's request:

1. The WBCG estimates its Hearing preparation and attendance costs at \$75,000 or more.
2. It has applied to the City for \$12,000 and to the Region of Halton for \$15,000, and at the hearing intends to ask for costs.
3. It has raised almost \$9,000 over the past two years, most of which has now been spent on consultant's fees, legal fees and on the printing and distribution of flyers.
4. The \$12,000 requested from the City is to be used for the retainers, fees and disbursements of a consulting hydrogeologist and legal counsel.

Staff were asked to report on the following considerations, which will be addressed in the order listed:

1. the appropriateness of the grant from a legal perspective;
2. other municipal precedents for such grants, in particular from Milton and Peel;
3. the appropriateness of providing an interest-free loan in lieu of a grant; and
4. the appropriateness of financing the grant from the Environmental Management budget (Account 770-0144).

From the City's perspective, the central legal issue is whether a cash grant from the City might compromise the Group's independence in advancing its position at the Hearing. Mr. Stan Stein, the City's external legal counsel, can see no negative impacts on the City's case resulting from a grant to the WBCG. Expressed positively, Mr. Stein sees such a grant as contributing to a meaningful and articulate presentation supported by sound research on the part of the WBCG.

We contacted the Town of Milton and the Region of Peel in search of precedents for such grants. The Town of Milton granted three groups that were opposing the Ontario Waste Management Corporation's candidate site, a total of \$10,000 for related expenses. The Region of Peel, which is searching for a permanent waste disposal facility, has to date undertaken to pay up to \$7,000 to each citizens' liaison group representing one of half a dozen candidate areas, for the fees of consulting hydrogeologists.

You may recall that the City paid \$12,000 in October 1980, to the Committee Against the Establishment of a Restaurant in Parkwood Plaza, to cover costs it incurred in participating in the Ontario Municipal Board Hearing. This may be regarded as a local precedent, although it is not an exact parallel to the present case.

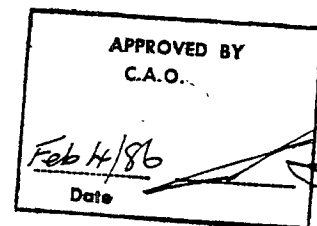
On the third consideration on which we were asked to report, we do not think an interest-free loan appropriate, mainly because the City's loan policy is designed to cover capital projects of enduring value to the citizenry.

Since the \$250,000 in the consulting fee object (3610) of the Environmental Management account represents an estimate which is subject to several major uncontrollable factors (e.g., the timing of the Hearing), and since \$12,000 is small in relation to the total object, we think it appropriate to finance the WBCG grant from this source.

Respectfully submitted,

Michael H. Boggs
Chief Administrative Officer

MHB:GV/gv
3689u



CITY OF BURLINGTON

C.A.O 11/86

January 20, 1986

Chairman and Members of the
Environmental Management Committee:

Subject: Burlington Staff Appointment to Burlington
Landfill Advisory Committee (B.L.A.C.)
File: 760-04

RECOMMENDATION:

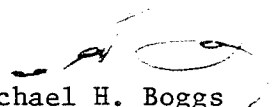
→ THAT Mr. J. Allan Ramsay, the City's Environmental
Management Co-ordinator, be appointed to the Burlington
Landfill Advisory Committee in place of Mr. G. Vance, as
the City of Burlington staff representative.

REPORT:

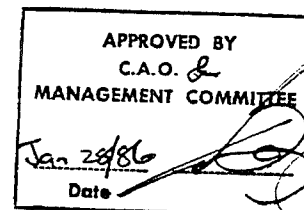
The Burlington Landfill Advisory Committee (B.L.A.C.) was formed
by the Region of Halton following the approval of the interim expansion
of the Regional Landfill site in Burlington in 1984. The two
representatives of the Corporation of the City of Burlington are Alderman
Mulkewich and Mr. G. Vance.

Since representing the Corporation on B.L.A.C. is one of the
defined responsibilities of the Environmental Management Co-ordinator, it
is appropriate that Mr. Ramsay replace Mr. Vance.

Respectfully submitted,


Michael H. Boggs
CHIEF ADMINISTRATIVE OFFICER

MHB:GV:sb
3622u



INFORMATION SECTION

CITY OF BURLINGTON

C.A.O. 21/86

January 31, 1986

Chairman and Members of the
Environmental Management Committee:

Subject: Bayview Park Conceptual Design Report
- Leachate Collection System and Land Requirements
File: 760-04-1

RECOMMENDATION:

None - For Information Only

REPORT:

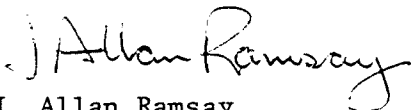
The attached* draft report has been prepared by Conestoga-Rovers and Associates (CRA) as part of the City's commitment to remedy the Bayview Park Landfill leachate problem.

In summary, the report has recommended a conceptual design for a proposed long-term leachate collection system. CRA are proposing the installation of a series of toe drains and sumps to collect leachate seepage along the westerly and southerly sides of the Park. The preferred option to connect the collection system with the existing sanitary sewers involves pumping leachate to a gravity sewer on King Road, which in turn will drain across the Highway 403 bridge.

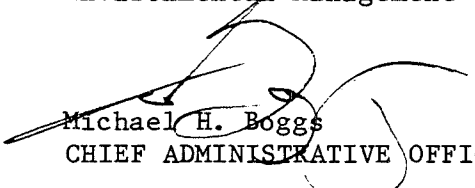
The draft report also discusses the land requirements for construction and remedial purposes and delineates the lands that should be acquired by the City. In total, CRA are recommending that 18.4 hectares (45.4 acres) of downgradient lands be acquired.

CRA have circulated the draft report to the Ministry of the Environment (MOE), and other affected agencies for their comments. Once these comments are received the report will be finalized and presented to the Environmental Management Committee for approval and authorization for final submission to the MOE.

Respectfully submitted,



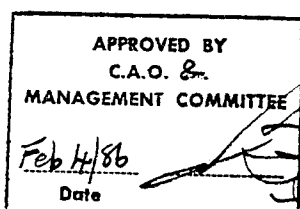
J. Allan Ramsay
Environmental Management Co-ordinator



Michael H. Boggs
CHIEF ADMINISTRATIVE OFFICER

MHB:JAR:sb
3670u
attch.

* Note: The draft report was attached to the agendas of the members of the Environmental Management Committee only.



EM-15-86

CRA
Consulting Engineers

760-04-1
CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive,
Waterloo, Ontario, Canada N2V 1C2
(519) 884-0510

January 21, 1985

Reference No. 1354-40

Mr. Michael H. Boggs
Chief Administrative Officer
Corporation of the City of Burlington
P.O. Box 5013
426 Brant Street
Burlington, Ontario
L7R 3Z6

Dear Mr. Boggs:

Re: Seep Plugging Program
Bayview Park Landfill Site

RECEIVED CITY OF BURLINGTON C.A.O.	
JAN 27 '86	
M.H.B.	
G.V.	
S.S.	
M.D.	
G.S.	
S.C.	
COPY TO:	
AK	

As authorized by the City of Burlington Environmental Management Committee, Conestoga-Rovers & Associates Limited (CRA) in conjunction with City of Burlington staff have completed a program to plug six existing leachate contaminated groundwater seeps at the Bayview Park Landfill Site. These seeps have been identified by the M.O.E. as causing contamination of the surface waters of nearby Indian Creek and its tributaries in the vicinity of the site. The plugging of these seeps was approved by the M.O.E. as a temporary measure to help reduce contamination of the surface water in the site vicinity until a more permanent solution could be put in place by the City of Burlington in the summer of 1986.

The location of the six seeps is identified on Figure 1. These seeps were plugged between December, 9, 1985 and December 18, 1985. This work was conducted by an outside contractor retained by the City of Burlington in conjunction with City of Burlington staff. A representative of Conestoga-Rovers & Associates Limited supervised the seep plugging and was on site at all times during the work. In general the seeps were plugged as outlined in the CRA letter to the City of Burlington in regards to seep plugging, dated October 20, 1985. Some variations in the seep plugging techniques were required from seep to seep as conditions warranted. A representative of the MOE examined the plugged seeps on December 19, 1985 and was pleased with the remediation work undertaken.

continued...

CONESTOGA-ROVERS & ASSOCIATES LIMITED
Consulting Engineers

January 21, 1985

Reference No. 1354-40

- 2 -

Since initial remediation, seeps 1, 5 and 6 have remained intact and have prevented further seepage. However, seeps 1, 2 and 3 are again leaking although the volume of contaminated groundwater emerging from these seeps has been greatly reduced from there initial flow rates before plugging was undertaken. It is estimated that these seeps (2, 3 and 4) held on the order of 2 to 3 weeks after plugging before seepage reoccurred. It is likely that even if these seeps are replugged they would start to seep again within a month after plugging.

CRA would recommend that no further seep plugging be undertaken as;

- 1) It is likely that seepage would reoccur within one month after the seeps are replugged.
- 2) Flows from the leaking seeps have been reduced (on the order of 50 percent) from the initial plugging, and surface water impact from these seeps has been substantially minimized.

It is anticipated that construction will begin on permanent remediation measures to control these seeps and greatly reduce surface water contamination, in the summer of 1986.

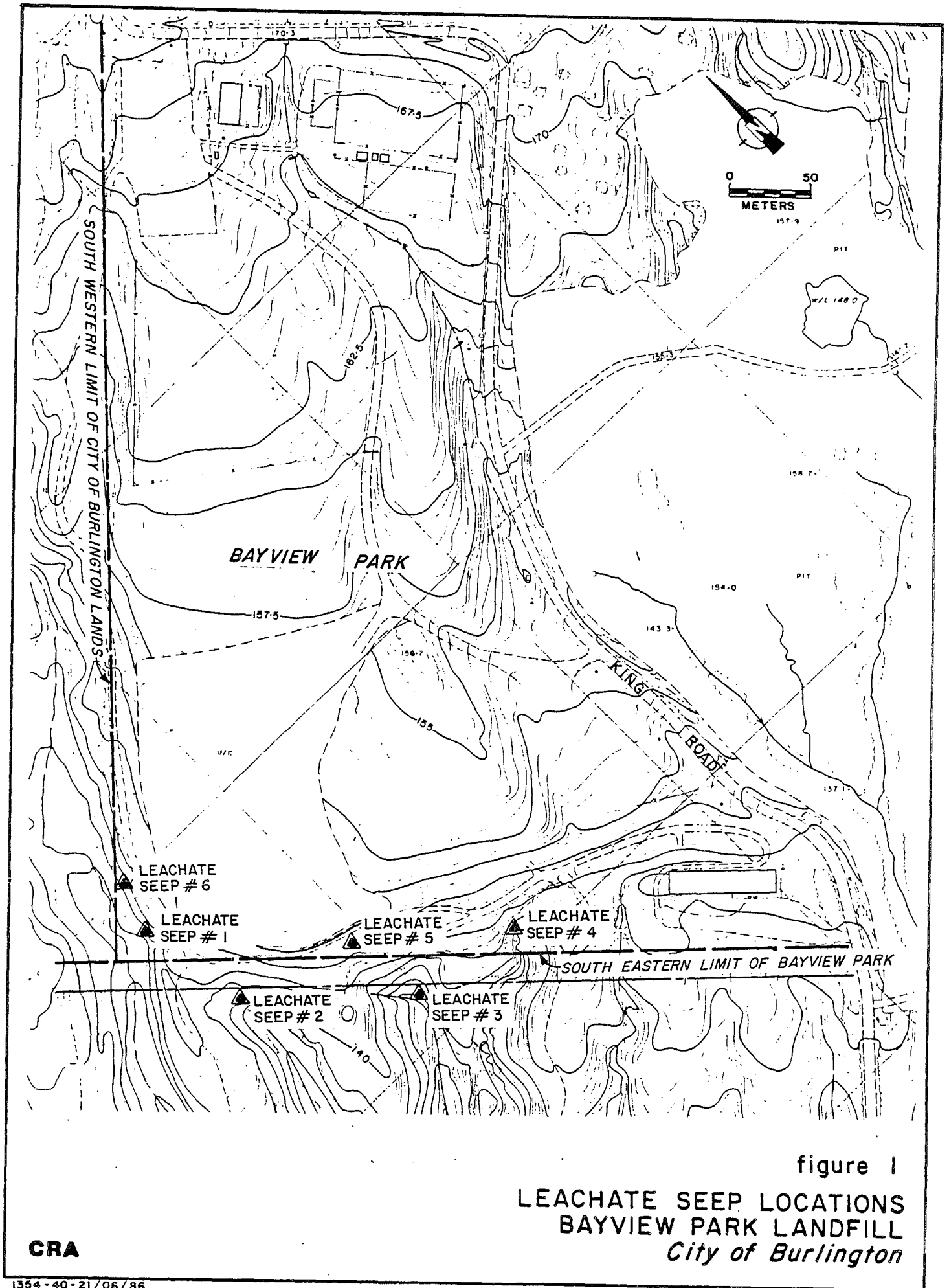
If you should have any questions and/or comments, please feel free to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES LIMITED



Walter Graziani, P. Eng.
WG/js





Ministry
of the
Environment

Ministère
de
l'Environnement

Central
Region

Région du
Centre

1986 01 15

Mr. Michael H. Boggs
Chief Administrative Officer
The Corporation of the
City of Burlington
P. O. Box 5013
Burlington, Ontario
L7R 3Z6

Dear Mr. Boggs:

RE: - Bayview Landfill Site
1. Draft Terms of Reference 1986 Monitoring Program
2. CRA Proposed Project Schedule - Leachate Collection System

This letter responds to the matters identified in your correspondence to Mr. G. Mierzynski dated December 16, 1985.

The site was inspected on December 19, 1985 and we were pleased to see that the work had been primarily completed with respect to plugging the seeps. However, there is one additional potential seep located in the pit at the National Sewer Pipe Ltd. property, on the east side of King Road, below the concrete culvert which extends from the Bayview Site under King Road to National Sewer Pipe property. This culvert is located at the 'S' bend in King Road. Please confirm your plans to deal with this area.

Remedial Alternatives Report

Ministry of Environment comments, on your Remedial Alternatives report, were provided to your consultants Conestoga-Rovers Associates Ltd. (CRA) on October 7, 1985, as you indicated. Those comments were reflected in the Meeting Summary prepared by CRA and further clarified by correspondence from Ms. I. R. Pawlowski, who responded on behalf of this Ministry.

CRA, Work Plan & Schedule

You have asked for our comments on the CRA Work Plan and Schedule for Bayview Landfill Leachate Collection System. Only one week was allowed for our review. For planning purposes, please allow four weeks for the review of the Conceptual Design Report and an additional two weeks for the review of the Final Contract Drawings and documents. Although these are minimum time periods, Ministry staff will attempt to expedite these reviews wherever possible.

I have noted that there has been no time allowance in this schedule for approvals that will be required by the Regional Municipality for use of Regional transmission and treatment facilities. Also, there does not appear to be a time allowance included for negotiations with the National Sewer Pipe Limited concerning any property acquisition required. I assume these matters have been accounted for since my Director has indicated that all of these issues are to be resolved before April 4/86. The Ministry has no other comments on the work plan or schedule at this time.

...P/2

760-04-1

RECEIVED	
CITY OF BURLINGTON	
1226 White Oaks Boulevard Oakville Ontario L6H 2B9 416/844-5747	
JAN 20 86	
MNB	
GV	
SB	
MD	
GS	
SC	
COPY TO:	
Erik Nelson	
FEB 19 1986	

to be circulated to all interested parties for comment and discussion Feb 13/86

- 2 -

Interim Monitoring

In the previous correspondence from Mr. Mierzynski, the City was to advise me of the frequency and reporting procedures planned to ensure that the contaminant discharge has been stopped. Could you please submit a letter to our office indicating your inspection schedule and reporting procedure as soon as possible to provide for some interim monitoring of the site.

Bayview Park Landfill, Draft Terms of Reference For 1986 Monitoring

The following points summarize the Ministry's comments with respect to this document.

1. Leachate monitoring wells should be sampled on a quarterly basis co-incident with the surface water sampling and flow measurement. Parameters selected should closely correspond for both groundwater and surface water measurements.

Generally, the consultant should address the efficiency and life expectancy of the leachate wells and construction materials.

2. Construction of leachate wells 1, 2 and 3 would be within the refuse. Your consultant should address the various configurations considered of screen length and various piezometer settings to determine the best sensitivity towards evaluation of the leachate mound and hydraulic pressures.
3. During the consultant's review of other available documentation they should provide a compilation report and general data summary of all projects reviewed. Deficiencies in data or interpretative differences should be identified with respect to designing an appropriate long-term leachate control system and updating any monitoring programs. The consultant should identify any additional work required for either design or monitoring purposes.
4. In air photos of the original site conditions, prior to landfilling, there is an indication that there were active creek flows. These areas have now been filled with refuse. The consultants should discuss the relative significance of any underflow systems on leachate mounding and generation.
5. Have any of the new leachate monitoring wells been installed in the shale bedrock beneath the refuse?
6. Your consultants should identify the specific details of compounds indicated in the EPA organic scan and that provided by the MOE priority pollutant scan. An evaluation of the compounds identified their behaviour and potential impact on the environment should be provided.

...P/3

- 3 -

7. Additional details of gas monitoring equipment and specifications should be provided. General weather conditions, ambient temperatures, wind conditions and barometer readings should be noted at the time of monitoring. All gas probe locations are to be clearly mapped and identified.
8. Leachate and stream samples will not be analyzed by the Ministry of the Environment as per previous indications by the Ministry.
9. A ninth surface water monitoring station be located to sample the branch of Indian Creek in the north east corner of King Road and the North Service Road.
10. Sample analysis which include routine parameters for each sampling period should include, during at least two of those sample periods, priority organics including organochlorinated hydrocarbons such as PCBs, mirex, pesticides, and organophosphorous compounds. Bacteriological analysis should be conducted quarterly at minimum and more frequently if high readings are found.
11. Sediment analysis is to be included for those EPA parameters expected to accumulate in sediments. Sample locations should be established at each of the existing MOE sample stations with additional sample locations situated in between each of these sites for more comprehensive coverage of contaminant accumulation in the Indian Creek.
12. Stream flow measurements at each MOE monitoring station should be undertaken during the seasonal sampling periods.
13. This Monitoring Program should include a routine site inspection program using ground and remote sensing techniques, coupled with the sampling program, to record any leachate 'break out' locations. If possible, standard remedial action plans to repair such areas should be clearly identified in the document and automatically instituted upon discovery.
14. Reporting times and special notice requirements to the Ministry should be clearly identified in the document.

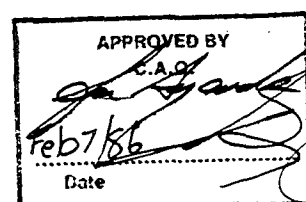
Yours truly,



L. F. Parsons
Planning Co-ordinator
Halton-Peel District

LFP:cm

cc: G. Nelson
B. Singh
G. Mierzynski
T. Crutcher, C.R.A.
J. Dulny
I. Pawlowski



 Energy, Mines and Resources Canada Énergie, Mines et Ressources Canada

**PRELIMINARY
ANNOUNCEMENT**

**ENERGY FROM MUNICIPAL WASTE:
A Project Planning Workshop**

March 13-14, 1986
Downtown Holiday Inn
Toronto, Ontario, Canada

The Renewable Energy Division of Energy, Mines and Resources Canada is sponsoring a two-day workshop on project planning for energy from municipal waste facilities. A hands-on approach will emphasize proven concepts, equipment and planning approaches.

- | | | |
|---------------------------------|--|--|
| WORKSHOP TOPICS: | <ul style="list-style-type: none"> ◦ needs analysis ◦ community relations ◦ financing options ◦ environmental issues ◦ site selection | <ul style="list-style-type: none"> ◦ appropriate technologies ◦ operational problems ◦ energy and resource marketing ◦ case histories |
| PLUS: | <ul style="list-style-type: none"> ◦ panel discussion on project financing and operating | <ul style="list-style-type: none"> ◦ tour of an EFW plant |
| CONFIRMED SPEAKERS FROM: | <ul style="list-style-type: none"> ◦ A.H. Case International ◦ Commerce Leasing Ltd. ◦ Enercan Inc. ◦ Ontario Ministry of Energy | <ul style="list-style-type: none"> ◦ The SNC Group Inc. ◦ Tricil Ltd. ◦ Delaware Solid Waste Authority ◦ U.S. Army Research Laboratory |

REGISTRATION will be limited to 100 participants on a first come, first served, basis. Fees are \$225 prior to February 28, 1986, and \$275 thereafter. Registration includes all workshop sessions, one field trip and two lunches.

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RESPONSE FORM

MAIL TO: Ms. Maria DoRego, Bioenergy Section, Renewable Energy Division, Energy, Mines and Resources Canada, 580 Booth Street, Ottawa, Ontario, CANADA K1A 0E4. Tel.: (613) 995-9447, ext. 368.

[] Yes, I am interested in attending the Energy from Municipal Waste Workshop, March 13-14, 1986, in Toronto, Ontario. Please send me a program brochure and registration form.

[] I want to register for the workshop now. I am enclosing a cheque payable to the Receiver General of Canada for \$ _____. Please send me a workshop program as soon as possible.

Name: _____ Title: _____

Company/Organization: _____

Address: _____ City: _____

Prov.: _____ Postal Code: _____ Tel.: _____

Canada