

RE: PROPOSED GVRD SOLID WASTE INCINERATION FACILITY
BURNABY'S BIG BEND INDUSTRIAL AREA

MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendation of the Director Planning & Building Inspection be adopted.

ITEM 10
MANAGER'S REPORT NO. 55
COUNCIL MEETING 1984 09 10

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TO: MUNICIPAL MANAGER
FROM: DIRECTOR PLANNING & BUILDING INSPECTION
SUBJECT: PROPOSED GVRD SOLID WASTE INCINERATION FACILITY -
BURNABY'S BIG BEND INDUSTRIAL AREA

1984 September 04

Our File: 15.601.1

RECOMMENDATIONS:

1. THAT a copy of this report be forwarded to:

Mr. D.L. MacKay
Commissioner
Greater Vancouver Sewerage &
Drainage District
2294 West 10th Avenue
Vancouver, B.C.
V6K 2H9

SUMMARY:

This report provides Council with a status position on the proposed establishment of a solid waste incineration facility in Burnaby's Big Bend Industrial Area. Information is provided on the GVRD's site selection process and on the environmental factors which need to be addressed in this regard.

R E P O R T

SITE SELECTION:

It is the GVRD's intention to acquire a site approximately 5 acres (2 ha) in size to provide for the establishment of a plant capable of incinerating 75,000 tons of domestic waste per annum. Municipal collection provides approximately 45,000 tons from Burnaby and 13,000 tons from New Westminster. The remaining 17,000 ton capacity would be utilized for incineration of residential waste collected from other surrounding Municipalities or from commercial operators who collect light refuse from residential projects not serviced by Municipal collections. The site size is such that the plant's capacity could be doubled to 150,000 tons per annum thereby enabling an increase in the incineration of refuse collected from these sources, whichever proved to be the more cost-effective.

A major factor in selecting a site is the availability of a user for the energy to be recovered in the incineration process. In this regard the GVRD canvassed the Lower Mainland Region and determined that one of the more viable users would be the Belkin Packaging and Paperboard facility on Wiggins Street in the Big Bend Area. Therefore, they identified a number of candidate sites in this immediate area.

While several sites are currently under review, prime consideration is being given to acquiring lands at the northwest corner of the intersection of the Thorne Avenue and Wheaton Street road allowances. These lands are owned by Belkin Packaging and Paperboard. Belkin's have recognized the benefit of locating this facility in close proximity to their operation, however, they are concerned with the potential loss of land which has a future development and/or expansion capability.

As a result of a review of the GVRD and Belkin's site requirements it has been determined that it may be advantageous to close portions of the undeveloped road allowances adjacent to the Belkin property which would then be sold to GVRD for inclusion in the proposed incinerator site, thereby minimizing the needed acquisition from the Belkin site.

As can be seen on the attached Figure 1, the potential to close portions of road allowances adjacent to the Belkin property exists as they are wider than the normal requirement for the construction of Municipal streets; for example, Thorne Avenue has an 80 ft. right-of-way and Wheaton Street 100 ft.

This proposal has been discussed in negotiations between the GVRD and Belkin Packaging and Paperboard resulting in a request from the GVRD to initiate partial road closures as illustrated on Figure 1. Accordingly the Planning and Building Inspection Department has circulated a closure application to other internal and external agencies as required for their review and comment. It should be emphasized that this proposal is simply being processed for technical information and a final recommendation will not be advanced to Council until all comments have been received. Furthermore, it should be recognized that alternative sites are under consideration by the GVRD in the event final agreement can not be obtained on acquiring this particular site.

ENVIRONMENTAL FACTORS:

In our initial review of this proposal certain environmental factors have been identified which need to be addressed by the GVRD as follows:

1. Air Contaminants

Inasmuch as the issue of air contaminants would be of concern to Burnaby's citizens, both surrounding and in the nearby vicinity to the plant, the Environmental Health Department has requested a detailed report addressing the issue of identification and quantity of any contaminants dispersed to the atmosphere. They have requested the GVRD to provide a model predicting the dispersal of any contaminants to nearby surrounding communities (similar to modernization programs at Burnaby refineries).

2. Noise Emission

The GVRD has been requested to prepare and submit a detailed acoustical study showing projected noise levels during the refuse incineration operation, both at the property line and within the nearby surrounding community.

3. Exclusion of Chemical Industrial Wastes

The GVRD has advised that they intend to only accept waste from residential areas of the Municipalities. The Environmental Health Department has requested the GVRD to show their method and manner of excluding various types of industrial chemical wastes from being received and incinerated at the proposed plant.

4. Storm Water Quality Control

Inasmuch as Burnaby conducts an extensive program of eliminating all industrial wastes to the storm water system, the GVRD has been advised that they will be expected to detail proper storm water quality control, which would eliminate any leachate from solid waste or ash entering the Municipal storm sewer system.

5. Sanitary Sewer Quality Control

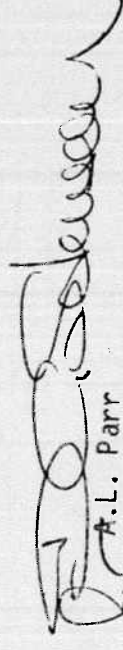
The Environmental Health Department is currently investigating the potential for establishing a by-law for source control for sanitary sewers. The GVRD has advised that it is their intention that the incinerator have a discharge to the sanitary sewer. They have, therefore, been advised that we will require a detailed report showing the quality of effluent to be directed to the sanitary sewerage system.

The foregoing outlines staff's preliminary comment on the incinerator proposal. We support the proposal in principle; however, prior to finalizing a position in this regard we have requested the GVRD to respond to certain aspects of the proposed operation as outlined herein. As this proposal is gaining recognition in the public's eye, the GVRD has been requested to provide the Municipal Council with a status position on the whole subject, confirming their continued active interest in a site in the Big Bend Area.

Accordingly, on 1984 August 29, Mr. D.L. MacKay, the GVRD Regional Manager forwarded a letter to the Municipal Manager advising that they are pursuing negotiations with Belkin Paperboard and Packaging Ltd. towards securing a site. Staff was further requested to initiate the proposed road closures to facilitate a proposed acquisition.

Moreover, Mr. MacKay advised that, as soon as the siting of the incinerator has been confirmed, the GVRD would be pleased to provide Council with a complete briefing on the project as requested.

As outlined in the preceding sections, staff has initiated a road closure application. Once we are in receipt of all comments a subsequent report will be submitted to Council requesting authority to introduce a formal road closing by-law (if appropriate in light of the technical responses from the various internal and external agencies involved) and providing information on the amount of compensation to be received for the closed road allowances. This report will also further address the environmental factors associated with the proposed establishment of an incinerator in the Big Bend Area.



A.L. Parr
DIRECTOR PLANNING &
BUILDING INSPECTION

PB/mcb
Attachs:

cc: Chief Public Health Inspector
Director Engineering

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 COUNCIL MEETING 1984 09 10

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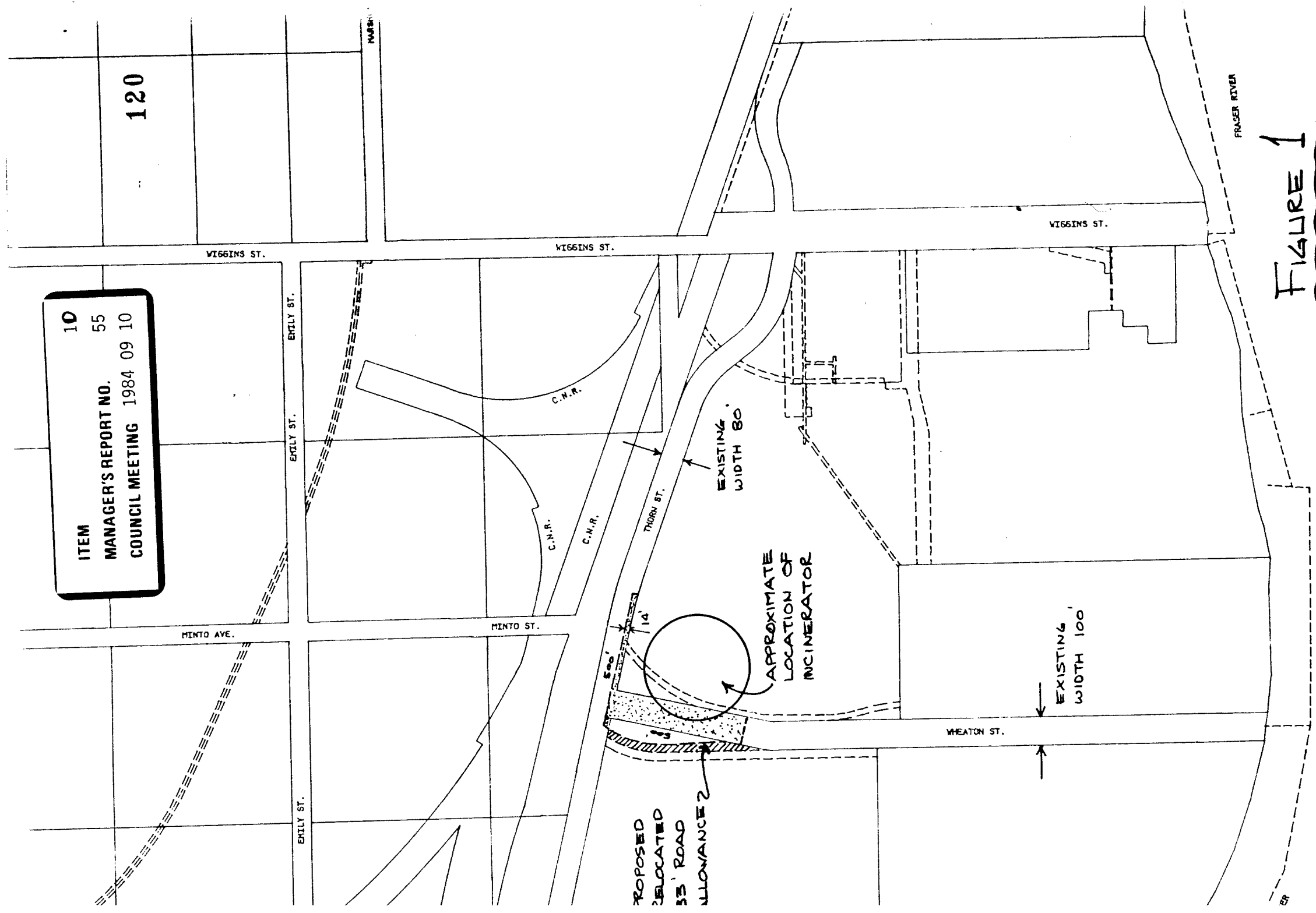
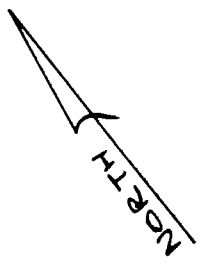


FIGURE 1



SCALE 1:5000

ROAD ALLOWANCES
 PROPOSED TO BE
 CLOSED & CONSOLIDATED
 WITH INCINERATOR SITE.

