

ITEM 2  
MANAGER'S REPORT NO. 62  
COUNCIL MEETING 89/10/02

RE: RECYCLING INITIATIVES

MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendation of the Acting Director Engineering be adopted.

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**TO: MUNICIPAL MANAGER** 1989 SEPTEMBER 21  
**FROM: ACTING DIRECTOR ENGINEERING**  
**SUBJECT: RECYCLING INITIATIVES**

**PURPOSE:** To advise Council of the status of the various recycling initiatives that the Municipality has undertaken.

RECOMMENDATION:

1. THAT this report be received for the information of Council.

REPORT

1.0 INTRODUCTION

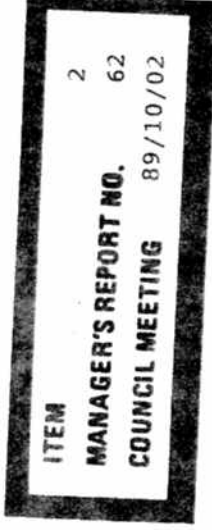
Council, at its regular meeting of 1989 August 21, received a report from the Environment and Waste Management Committee recommending the implementation of several recycling initiatives. These specific recycling initiatives add to existing recycling programs already being undertaken by the Municipality in making tangible, positive progress on recycling. All of these recycling programs are considered desirable in terms of making a positive impact on the three R's of recycling - reduce, reuse, and recycle.

October is Recycle Month throughout the Lower Mainland, an event sponsored by the G.V.R.D. in association with Burnaby and other government agencies, the private sector, and community organizations. Staff are of the opinion that it would be appropriate at this time to update Council on the status of the Corporation's various recycling initiatives.

2.0 RECYCLING INITIATIVES

2.1 Stride Avenue Interim Recycling Depot

The Municipality operates a multi-material recycling depot, open to the general public, located at Stride Avenue and which accepts: newspaper, mixed paper, cardboard, glass, metals, plastics, waste oil, and waste clothing. The depot is open 8:30 a.m. to 3:30 p.m. daily, seven days per week, except holidays.



2.0 RECYCLING INITIATIVES (Cont'd.)

2.1 Stride Avenue Interim Recycling Depot (Cont'd.) - **104**

Public participation at the recycling depot is continuing to increase since its opening in February, 1989. Recycled materials are received from throughout the Lower Mainland and are not restricted to Burnaby residents. The participation levels and quantities recycled are shown in Table I attached.

2.2 Office Paper Recycling Program

The Municipality presently undertakes an office paper recycling program for the Municipal Hall, the Works Yard, and the Eastburn Community Centre. Staff are presently working to include all Municipal departments in the office paper recycling program, including: Fire, Police, Library, etc. Table II attached illustrates the success of this program.

2.3 White Goods

The Municipality offers free pick-up of white goods (refrigerators, stoves, washers, dryers, hot water tanks, and freezers) from Burnaby residents. These appliances are recycled by Richmond Steel Recycling Ltd. and Table III attached indicates the quantities recycled.

2.4 Freon

Since May, 1989 the Municipality has been removing freon from the refrigerators and freezers collected under our white goods recycling program. A local appliance dealer, J.P.A. Appliances, has (with Burnaby's support) undertaken significant effort in setting up a freon recovery system for the freezers, fridges and air conditioning units recycled within the Municipality. It is staff's understanding that Burnaby is the first (and only) local government agency to recycle freon in British Columbia.

2.5 ONP Curbside Collection

The Municipality's curbside collection program for old newsprint (ONP) contracted with International Paper Industries recycles approximately 120 tonnes of ONP per month. Council, at its regular meeting of 1989, September 11, refused a request from I.P.I. for partial funding of this program; however, notwithstanding this action it is intended that ONP recycling will be maintained.

2.6 Multi-Material Curbside Collection

Under a multi-material curbside collection program residents are required to separate recyclable materials from their refuse and to set them at the curbside, in Municipally-provided containers, for pick-up by the Municipality. Such a program would demand a high degree of public involvement, public and Municipal commitment and extensive promotion. The G.V.R.D. has recently completed a major study and technical report by MacLaren

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## 2.0 RECYCLING INITIATIVES

### 2.6 Multi-Material Curbside Collection (Cont'd.)

Engineers entitled "Waste Reduction and Recycling in the G.V.R.D.: A Blueprint for Comprehensive Resource Management". Arising from this report, G.V.R.D. staff have produced an action plan based on the recommendations contained in the MacLaren Report. Municipal staff are presently preparing an action plan for the Municipality entitled "Recycling Strategies Related to the G.V.R.D. Action Plan" which will be presented to the Council's Environment and Waste Management Committee in the near future.

### 2.7 Procurement Policies

The Municipality has adopted several procurement policies - which prefer products containing secondary materials over virgin material - as the next logical step in "closing the loop"; i.e. in creating markets for recyclable products. Engineering construction contracts are in the process of being revised to promote the use of 20% recycled asphaltic pavement (RAP) in the asphalt utilized in road base pavements. In addition, as existing stock is depleted, the Municipality will be using re-refined oil in all Corporation owned and maintained vehicles.

### 2.8 Waste Oil Recycling

Municipal staff are working on a waste oil recycling project to provide Burnaby residents with containers suitable for the Municipal collection of waste oil. Staff will be inviting the oil industry to participate in the program and will be seeking senior government funding.

### 2.9 Re-Routing of Commercial Container Trucks

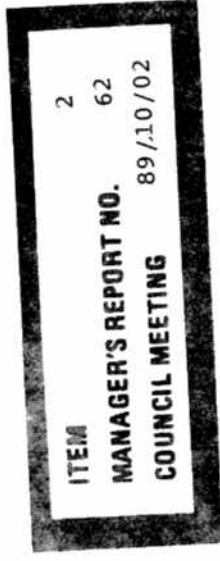
The Municipality's commercial container collection system has been revised in order that Institutional-Commercial-Industrial (ICI) wastes, which usually have a high content of waste paper, cardboard and metals, be disposed of at Wastech, where a portion can be recovered and recycled, rather than at the G.V.R.D.'s Incinerator. Initial indications are that approximately 12-15% of the ICI wastes collected are now being disposed at Wastech.

### 2.10 Promotion of Backyard Composting

The Municipality will be promoting residential backyard composting by distributing the G.V.R.D.'s brochure on this subject during the annual distribution of sanitation calendars.

### 2.11 Strata-Unit and Cooperative Housing Complexes

Municipal staff have been assisting, when requested, residents living in strata-unit and cooperative housing complexes to set up recycling drop-off depots for their specific establishments. To date staff have worked with the Beresfords and the Medina Housing Cooperative in assisting them in setting up recycling programs.



2.0 RECYCLING INITIATIVES (Cont'd.)

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2.12 Old Orchard Shopping Centre

Staff are involved with the management and tenants of the Old Orchard Shopping Centre and the G.V.R.D. in undertaking a waste audit of the shopping centre. A waste audit, being a review of the operations undertaken in the centre with a detailed listing of all the wastes generated, is a necessary first step of any ICI recycling program. In addition, staff are discussing with the shopping centre management the feasibility of establishing a public drop-off depot to be located in the shopping centre parking lot.

3.0 CONCLUSION

October is Recycle Month and as previously mentioned, staff felt it appropriate at this time to update Council on the various recycling initiatives the Municipality has underway. All of the preceding initiatives make a positive impact on the three R's of recycling - reduce, reuse, and recycle - while not requiring major expenditures and not compromising the Municipality's position regarding the G.V.R.D.'s Resource Management System.

HDH:je  
Attach.

  
ACTING DIRECTOR ENGINEERING

TABLE I

Estimated Quantity of Material Recycled  
 (tonnes unless otherwise noted)

| Month           | Average No. of Vehicles Per Day | Estimated Quantity of Material Recycled (tonnes unless otherwise noted) |            |             |         |       |       |      | Waste Oil (Imp. Gals.) | Waste Clothing |
|-----------------|---------------------------------|---|------------|-------------|---------|-------|-------|------|------------------------|----------------|
|                 |                                 | ONP   | Card-board | Mixed Paper | Plastic | Glass | Metal | Oil  |                        |                |
| Feb.            | 14                              | 2.5   | .9         | -           | -       | 3.0   | 2.1   | -    | -                      |                |
| March           | 14                              | 3.2   | 1.0        | .5          | -       | 3.5   | 2.4   | -    | -                      |                |
| April           | 29                              | 4.5   | 1.7        | 2.8         | .2      | 4.5   | 6.2   | 250  | -                      |                |
| May             | 30                              | 6.8   | 2.5        | 4.9         | .5      | 6.6   | 8.9   | 250  | -                      |                |
| June            | 36                              | 8.9   | 3.4        | 4.7         | .7      | 10.1  | 5.7   | 250  | -                      |                |
| July            | 41                              | 8.0   | 2.7        | 4.7         | .8      | 6.4   | 3.8   | 300  | -                      |                |
| Aug.            | 43                              | 11.1  | 5.1        | 6.7         | .9      | 11.9  | 5.8   | 600  | -                      |                |
| Sept.           | 47                              | 12.4  | 6.7        | 7.7         | 1.0     | 16.9  | 9.0   | 750  | 0.08                   |                |
| Total           |                                 | 57.4  | 24         | 32          | 4.1     | 62.9  | 43.9  | 2400 | 0.08                   |                |
| Monthly Average | 32                              | 7.2   | 3.0        | 4.6         | 0.7     | 7.9   | 5.5   | 400  | 0.08                   |                |

TABLE II

| Month           | Quantity Recycled (Kilograms) | Revenue (Dollars) |
|-----------------|-------------------------------|-------------------|
| Nov-Dec/88      | 1,180                         | 104.80            |
| January/89      | 1,680                         | 169.10            |
| February        | 1,600                         | 146.20            |
| March           | 770                           | 64.30             |
| April           | 1,650                         | 197.50            |
| May             | 1,830                         | 135.70            |
| June            | 1,540                         | 105.70            |
| July            | 2,420                         | 106.10            |
| TOTAL           | 12,760                        | 1,029.40          |
| Monthly Average | 1,407                         | 114.30            |

(Approximately 3,100 lbs.)

Approximately 400 telephone books and a similar number of "yellow pages" were also recycled this year and are not included in the above table.

TABLE III

| Month           | No. of Appliances | Weight (tonnes) |
|-----------------|-------------------|-----------------|
| February        | 100               | -               |
| March           | 120               | 4.8             |
| April           | 199               | 11.3            |
| May             | 205               | 13.2            |
| June            | 166               | 11.3            |
| July            | 196               | 11.3            |
| August          | 282               | 18.1            |
| September       | 230               | 14.6            |
| Monthly Average | 187               | 12              |

