



METROPOLITAN SERVICE DISTRICT

6400 S.W. CANYON COURT PORTLAND, OREGON 97221 (503) 297-3726

MSD BOARD OF DIRECTORS

PORTLAND WATER BUREAU
1800 SW 6TH
AUDITORIUM

SEPTEMBER 27, 1974
2:00 P.M.

A G E N D A

- I. MINUTES
- II. PUBLIC COMMUNICATIONS
- III. ORDINANCE NO. 19 - SECOND PUBLIC HEARING
AN ORDINANCE AMENDING ORDINANCE No. 3 WITH RESPECT TO
THE RELATIONSHIP BETWEEN METROPOLITAN SERVICE DISTRICT
AND LOCAL JURISDICTIONS
- IV. DEQ FIRST OBLIGATION REQUEST
 - . DRAFT RATE ORDINANCE
 - . PRE-DESIGN REPORT AND SYSTEM COST ESTIMATE
 - . S.E. PORTLAND SITE ANALYSIS
 - . NET ENERGY EVALUATION
- V. RESPONSE TO QUESTIONS RAISED BY THE CITY OF BEAVERTON
- VI. OTHER BUSINESS



SEPTEMBER 20, 1974

TO: MSD BOARD OF DIRECTORS
FROM: MSD STAFF
SUBJECT: STAFF REPORT FOR SEPTEMBER 27, 1974

PRESENTED TO THE BOARD FOR TRANSMITTAL AND RECOMMENDED ACTION ARE THE FOLLOWING ITEMS:

PAGE

- 1 I. MINUTES
Action - Approval of the Minutes of September 13, 1974
- 11 II. PUBLIC COMMUNICATIONS
Action - Receive public testimony
- 12 III. ORDINANCE NO. 19 - SECOND PUBLIC HEARING
AN ORDINANCE AMENDING ORDINANCE No. 3 WITH RESPECT TO THE RELATIONSHIP BETWEEN METROPOLITAN SERVICE DISTRICT AND LOCAL JURISDICTIONS

PAGE

Action - Conduct second public hearing and adopt
Ordinance No. 19

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IV. DEQ FIRST OBLIGATION REQUEST

- . DRAFT RATE ORDINANCE
- . PRE-DESIGN REPORT AND SYSTEM COST ESTIMATE
- . S.E. PORTLAND SITE ANALYSIS
- . NET ENERGY EVALUATION

Action - Receive reports for discussion and
review

16

V. RESPONSE TO QUESTIONS RAISED BY THE CITY OF
BEAVERTON

Action - Consider City of Beaverton letter
and approve MSD response if appropriate

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VI. OTHER BUSINESS

I. MINUTES

THE FOLLOWING PAGES CONTAIN MINUTES FOR THE BOARD MEETING OF SEPTEMBER 27, 1974. THE STAFF RECOMMENDS APPROVAL OF THE MINUTES.

Table 1
 METROPOLITAN SERVICE DISTRICT
 East Washington County Milling-Transfer Station
 CAPITAL COST BUDGET ESTIMATE SUMMARY¹
 Beaverton Site³--1600 Tons Per Day Capacity

ITEM	ENGINEERING PRE-DESIGN COST ESTIMATE	ORIGINAL STUDY ² COST ESTIMATE
Milling With Magnetic Separation	\$7,833,000	\$3,384,000
Adding Air Separation Equipment	1,619,000	431,000
Subtotal	9,452,000	3,815,000
Additive Alternates:		
Secondary Milling	1,337,000	--
Transportation Fuel Fraction	615,000	--
TOTAL	\$11,404,000	\$3,815,000

¹ August 1974 dollars including 15 percent contingencies and 10 percent technical services; exclusive of land costs. Inflation rate through 1977 estimated at 3/4 of 1 percent per month.

² Costs escalated to August 1974 levels based on ENR index ratios.

³ Specific costs for this site include consideration of high ground water table, extra utility services, and an anticipated street assessment.

Table 2

METROPOLITAN SERVICE DISTRICT
 East Washington County Milling-Transfer Station

CAPITAL COST BUDGET ESTIMATE BREAKDOWN¹
 Beaverton Site³ --1,600 Tons Per Day Capacity

ITEM	ENGINEERING PRE-DESIGN COST ESTIMATE	ORIGINAL STUDY COST ESTIMATE ²
Milling With Magnetic Separation		
Site Development	\$ 1,710,000	\$ 263,000
Buildings	2,130,000	900,000
Equipment	2,421,000	1,340,000
Transport	1,572,000	881,000
Subtotal	\$ 7,833,000	\$3,384,000
Adding Air Separation Equipment	1,619,000	431,000
Secondary Milling	1,337,000	--
Transport fuel fraction	615,000	--
TOTAL	\$11,404,000	\$3,815,000

¹August 1974 dollars including 15 percent contingencies and 10 percent technical services; exclusive of land cost. Inflation rate through 1977 estimated at 3/4 of 1 percent per month.

²Costs escalated to August 1974 levels based on ENR index ratios.

³Specific costs for this site include consideration of high ground water table, extra utility services and an anticipated street assessment.

II. PUBLIC COMMUNICATIONS

THIS AGENDA ITEM ALLOWS FOR THE MSD BOARD TO HEAR COMMENTS FROM THE PUBLIC ON ITEMS NOT CONTAINED ON THIS AGENDA.

III. ORDINANCE 19 - SECOND HEARING

AN ORDINANCE AMENDING ORDINANCE No. 3 STATING THE INTENT OF MSD TOWARD STATE AND LOCAL LAWS, ORDINANCES, ZONING REGULATIONS THAT APPLY TO TIRE CARRIER OR TIRE PROCESSING CENTER PERMITS AUTHORIZED BY MSD.

AFTER THE SECOND PUBLIC HEARING OF THIS ORDINANCE AND IMPLEMENTATION OF ANY MODIFICATIONS, THE STAFF RECOMMENDS ADOPTION OF ORDINANCE No. 19.

APPROVED METROPOLITAN
SERVICE DISTRICT
BOARD OF DIRECTORS

ACTION NO. 74-211

DATE 9-27-74

BY Jean M. Wood
CLERK OF THE BOARD

ORDINANCE NO. 19

An ordinance amending Ordinance No. 3 with respect to the relationship between Metropolitan Service District and local jurisdictions.

ORDINANCE NO. 19

THE METROPOLITAN SERVICE DISTRICT ORDAINS:

SECTION I.

Section II is added to and made a part of Ordinance No. 3.

SECTION II.

Any permit or authorization granted by the MSD to a tire carrier or a tire processing center is not intended to supplant, preempt or interfere with the authority of the state or local jurisdictions to enforce their respective laws, ordinances, zoning regulations, franchise agreements and other regulations that apply to the business permitted or authorized by the MSD.

Dated:

Robert Schumacher, Chairman

James Robnett, Vice Chairman

IV. DEQ FIRST OBLIGATION REQUEST INFORMATION

THE STAFF AND CONSULTANTS HAVE BEEN WORKING IN CONJUNCTION WITH THE SOLID WASTE COMMITTEE TO PREPARE INFORMATION FOR APPLICATION OF THE FIRST OBLIGATION REQUEST TO THE STATE OF OREGON. THE REPORT TODAY INCLUDES SUBMITTAL APPLICATION AND DOCUMENTS. COR-MET WILL PROVIDE FUNDING REQUEST SUBMITTAL INFORMATION TO THE BOARD FOR REVIEW. CONTAINED HEREIN WILL BE DISCUSSIONS REGARDING:

- . DRAFT RATE ORDINANCE
- . PRE-DESIGN REPORT AND COST ESTIMATE
- . S.E. PORTLAND SITE ANALYSIS
- . NET ENERGY ANALYSIS

THE PRESENT MSD SCHEDULE FOR SUBMITTAL TO THE DEQ IS MID-OCTOBER 1974. THE MSD STAFF WILL REQUEST APPROVAL TO SUBMIT APPLICATION ON OCTOBER 11, 1974.

THE STAFF RECOMMENDS THE BOARD ACCEPT THE REPORT FOR BOARD REVIEW. NO OTHER ACTION IS REQUIRED.

V. RESPONSE TO QUESTIONS RAISED BY THE CITY OF BEAVERTON

THE FOLLOWING PAGES CONTAIN A LETTER RECEIVED BY THE MSD CONCERNING SOME SPECIFIC QUESTIONS THE CITY OF BEAVERTON HAS RAISED REGARDING THE MSD SOLID WASTE PLAN. THE STAFF HAS PREPARED A RESPONSE THAT WILL BE PRESENTED AT THE MSD BOARD MEETING ON FRIDAY.

THE STAFF RECOMMENDS THE BOARD APPROVE A RESPONSE TO THE CITY OF BEAVERTON AND AUTHORIZE THE STAFF AND TECHNICAL CONSULTANTS TO PRESENT THIS INFORMATION TO THE BEAVERTON CITY COUNCIL ON OCTOBER 7, 1974.

APPROVED METROPOLITAN
SERVICE DISTRICT
BOARD OF DIRECTORS

ACTION NO. 74-215

DATE 9-27-74

BY Jean M. Wood
CLERK OF THE BOARD



TO: MSD BOARD

FROM: CHARLES KEMPER

SUBJECT: CITY OF BEAVERTON CONCERNS REGARDING MSD SOLID WASTE PROGRAM

The attached letter represents the formal concerns the City of Beaverton has expressed regarding the MSD Solid Waste Action Plan.

It should be noted that there are two basic issues:

1. The viability of the Solid Waste Action Plan.
2. The location of a milling/transfer station in the Beaverton area.

The first issue is a policy issue that would require a change in the MSD Solid Waste Plan. The second issue must be considered as an emotional one that should be resolved after detailed review of the environmental impacts.

The staff and consultants will prepare a response to this letter for review by the MSD Board on September 27, 1974.

Your review and comment on this matter would be appreciated.

CITY OF BEAVERTON

4950 S. W. HALL BLVD.

BEAVERTON, OREGON 97005

TELEPHONE 644-2191

September 17

RECEIVED
SEP 18 1974

COLUMBIA REGION ASS'N.
OF GOVERNMENTS

Board of Directors
Metropolitan Service District
6400 S.W. Canyon Court
Portland, Oregon

Gentlemen:

The City of Beaverton, like the Metropolitan Service District, believes that one of the most pressing problems facing the Portland metropolitan area is the collection and disposal of solid waste. The City of Beaverton, like the Metropolitan Service District, believes that as the problem is regional in nature, the solution will also have to be regional. Therefore, the City has been pleased with the effort of the Metropolitan Service District to formulate a Management Action Plan for Solid Waste within the region and that is why we have supported and will continue to support your efforts in this area.

An analysis of the Solid Waste Management Action Plan formulated for you by Cor-Met has, however, raised a number of questions which make it very difficult for the City Council for the City of Beaverton to endorse your proposal at this time. Therefore, we are passing some of these questions on to you in the hopes that you will be able to persuade Cor-Met to supply the answers which would make it much more possible for the City Council to endorse the Action Plan.

In the weeks since the City had first received the Action Plan, it has been subject to review by members of the City Council, the City staff and a number of interested citizens, particularly those in the vicinity of the proposed transfer station. Because of the length and complexity of the report, it is not an easy job for any individual, no matter how highly motivated and technically competent he may be, to produce a series of very specific questions which might be very specifically answered. After reviewing the numbers of questions we have received, it would appear that questions being raised fall into several general categories.

First, there are, of course, a number of questions relating to the effect of the transfer station on the adjacent industrial park and residential neighborhood. These questions should be more properly raised as part of the environmental

assessment and City staff is presently reviewing the preliminary draft of Cor-Met's environmental assessment. The questions which they raise, along with those raised by other interested parties, will be forwarded to you under separate cover.

The second area of concern centers around the processes suggested in the Action Plan. We are well aware that transfer stations per se have been a feature of solid waste management for over two decades and that the economics connected with them and the problems raised by them are rather well documented. We are concerned with the lack of documentation concerning the specific processes suggested as necessary adjuncts to the milling and transfer stations.

A very rudimentary attempt by City staff and other interested parties to discern the present state of the art in the area of resource recovery would suggest that Cor-Met was quite correct when they stated in Volume III of the Action Plan that "Current Projects: The most interesting aspect of currently operating central resource recovery projects having significant source separation programs is that --aside from the traditional activities of the secondary materials industry--there are so few. Most projects are quite new and have been funded, at least partially, by EPA. They are primarily demonstration plans of promising but unperfected techniques." While we have actively tried to run down successful projects in the area of the separation of ferrous materials or light combustibles, we unfortunately were not able to secure any evidence that these two techniques are now operational anywhere in the United States except on a pilot program basis.

We are especially concerned with the availability of the actual hardware to handle the special separation processes. Our concern is not in the least lessened by the assurances contained in the Cor-Met report that, concerning magnetic separation, "all equipment would be standard except for the magnetic separator, which has not yet been fully proven although it is presently being tested in a number of full scale facilities" and in the case of air separation the comment that "the only standard equipment proposed is the conveyor from the air lock and the stationary compactor. The remainder of the equipment has not yet been fully proven but is presently being tested at the Union Electric plant in St. Louis." We have been informed by the City of St. Louis that no reliable data on that operation can be expected prior to June of 1975.

It would be accurate to state in summary that our concern is based to a great extent on the fact that these ancillary processes which form part of the basis of the Action Plan do not appear to be sufficiently tested as to either their operational ability or their financial feasibility to make them a reliable component of the program at this time. We do wonder if it might not be possible to consider some sort of a small pilot plant operation, utilizing one of the existing facilities, prior to any final go ahead on the development of major permanent facilities involving these two operations?

Board of Directors
September 17, 1974
Page Two

Finally, there are questions which have been raised in relation to the financial aspects of the Plan. While the Metropolitan Service District is in a position to borrow capital and use it for a regional solid waste management program, we have some concern about the effect of such borrowing on tax rates and bonding capacities and feel that there is a need for greater analysis than was given in Volume II of the Action Plan. While we realize that loans may be made by the Environmental Quality Commission, we would have some concern about the ability of any public agency, including MSD, being able to issue revenue bonds, given the present state of the municipal bond market. We also are not clear as to the cause of the drop in net revenues after the first five years as shown in the summary of revenues and expenditures contained on the last page of Volume II. We are also concerned that financial feasibility of the Action Plan would appear to be predicated upon the as yet undeveloped markets for the process by products whose supply is dependent upon yet unproven technologies.

Since there may be a need for transfer stations and since the milling of solid waste seems to be an established and acceptable process which aids in the reduction of bulk and hence the lowering of costs of transportation from the transfer station to landfills, we would like to know if it is economically feasible to establish milling and transfer stations without the ancillary recovery processes.

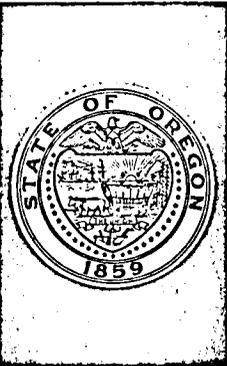
The City Council, its staff and a large number of interested citizens stand ready to work in any manner with the Metropolitan Service District staff and Cor-Met in an attempt to secure the answers to these stations or to develop alternate programs.

We have one final concern which it would be well to raise at this time. We believe that it appears unfair to ask the engineering firm which conceived the Action Plan and which will probably be called upon to do the final design for the program, to also conduct the environmental assessment. It is our belief that this assessment would be far better performed by an independent firm of engineers in no way connected with the primary consultants.

Sincerely,

William H. Young
William H. Young
Mayor

WHY:mm



DEPARTMENT OF ENVIRONMENTAL QUALITY

1234 S.W. MORRISON STREET • PORTLAND, ORE. 97205 • Telephone (503) 229-5349

TOM McCALL
GOVERNOR

KESSLER R. CANNON
Director

September 26, 1974

Honorable Robert Schumacher
Chairman MSD Board
6400 S. W Canyon Court
Portland, Oregon 97221

Dear Mr. Schumacher:

The Department has received from Mr. Charles Kemper, a letter requesting our comments on the questions and concerns raised by the City Council of Beaverton regarding the MSD Solid Waste Action Plan and the concepts included therein.

The MSD Solid Waste Action Plan, which has been approved by the Department, proposes a series of waste processing and transfer centers to serve the MSD region that are located to provide maximum convenience to the collectors and public and designed to achieve maximum resource recovery utilizing available demonstrated technically sound and proven equipment. Nothing new is proposed for the MSD system. The CORMET report did elude to the trial status of some of the systems parts but reports become dated rather quickly particularly in the field of solid waste management and energy recovery technology. During the past year all components of the proposed processing line including air classification have been demonstrated workable to the Department's satisfaction.

Implementation of processing systems such as being proposed by the MSD is going ahead nation-wide and is being accelerated in those areas similar to the Portland vicinity where the non-availability of landfills and public health requirements preclude development of lengthy systems histories or pilot projects for review and analysis. ("Preclude Reinventing the Wheel").

Energy recovery utilizing classified refuse for an auxiliary fuel as proposed by MSD is a viable waste management technique. Test firing of classified refuse shipped in from St. Louis, Mo. and Houston, Texas has been done at Georgia Pacific's Toledo plant and Eugene Water and Electric Board's plant in Eugene. Both combustion units tested are wood waste recovery boilers and test results are very encouraging. Classified refuse and wood wastes, both fibrous base materials, appear to be even more compatible in mixed combustion ratios than coal-refuse mixes being fired elsewhere in demonstration projects.



Contains
Recycled
Materials

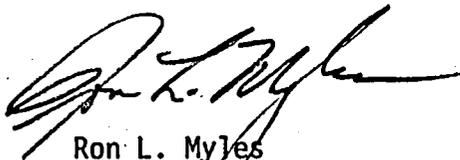
Honorable Robert Schumacher
September 26, 1974
Page 2

We suggest that there may have been a breakdown in the public educational-informational process. To assist you in furthering input to local governments we offer such staff assistance as is available. The concept of the MSD plan is highly acceptable and what MSD proposes in it's plan for the Metropolitan Portland area, particularly the development of secondary materials industries, is anticipated to have major positive effect on what can be done state-wide in waste materials utilization.

Expressing Department concurrence with the MSD Plan concepts is a relatively easy task given the state of the art and the needs of the region. Facility siting and the related political questions on policy are issues that should not be entwined with plan concept endorsement.

Cordially,

KESSLER R. CANNON
Director



Ron L. Myles
Deputy Director

GLG:mm
cc: Northwest Region Office

VI. OTHER BUSINESS

The following page contains a proposed MSD resolution covering flow control policy for the Solid Waste Program. Staff recommends approval of the MSD Flow Control Policy.

APPROVED METROPOLITAN
SERVICE DISTRICT
BOARD OF DIRECTORS

ACTION NO. 74-216

DATE 9-27-74

BY Jean M. Wood
CLERK OF THE BOARD



MSD FLOW CONTROL POLICY

THE MSD HEREBY RESOLVES:

The MSD recognizes the need to develop central processing facilities to prepare Solid Waste for reuse and energy recovery. In order to develop markets for resource recovery products, all discarded mixed wastes generated in the Service area should be processed at MSD central recycling facilities. The MSD will continue to address the definition of Solid Waste ownership, the methods of maintaining output products quantities, and the impacts of these regulations on local jurisdiction policies and regulations.

ADDITION TO OTHER BUSINESS

Board consideration of Emergency Ordinance No. 21 amending Ordinance No. 3 to subject to the same requirements as other tire carriers, persons transporting scrap tires to be salvaged.

APPROVED METROPOLITAN
SERVICE DISTRICT
BOARD OF DIRECTORS

ACTION NO. 74-213

DATE 9-27-74

BY Jan M. Weaver
CLERK OF THE BOARD