

METROPOLITAN SERVICE DISTRICT

BOARD OF DIRECTORS

Portland Water Bureau

Auditorium

1800 SW Sixth Avenue

April 26, 1974

2:00 P.M.

A G E N D A

- I. MINUTES
- II. ACCOUNTS PAYABLE
- III. PUBLIC HEARING TESTIMONY - SECOND
 - . Solid Waste Management Plan Adoption Ordinance
- IV. PROGRESS REPORT ON PHASE II SOLID WASTE ENGINEERING WORK
- V. RESOLUTIONS FOR LOCAL GOVERNMENT SUPPORT OF THE SOLID WASTE MANAGEMENT PLAN
- VI. REPORT CONCERNING WASHINGTON COUNTY SELECTION
- VII. MSD 1974-75 BUDGET APPROVAL
- VIII. JOHNSON CREEK DRAINAGE MANAGEMENT PROGRAM
 - . Phase I Authorization
 - . Drainage Commission
- IX. OTHER BUSINESS

April 23, 1974

TO: MSD BOARD OF DIRECTORS
FROM: MSD STAFF
SUBJECT: STAFF REPORT FOR APRIL 26, 1974

Presented to the Board for transmittal and recommended action
are the following items:

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| | Action - <u>Approval</u> |
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| | Action - <u>Approval</u> |
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| | . Solid Waste Management Plan Adoption Ordinance |
| | Action - <u>Adopt</u> Ordinance |
| 15 | IV. PROGRESS REPORT - PHASE II SOLID WASTE ENGINEERING - |
| | COR-MET |
| | Action - <u>Accept</u> Report |
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| | THE MSD SOLID WASTE MANAGEMENT PLAN |
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LANDFILL SITE SELECTION
Action - Accept Report for transmittal to DEQ
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Action - Approve Budget for Transmittal to the
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jurisdictions to begin Phase I.
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- 37 IX. OTHER BUSINESS

I. MINUTES

The following pages contain the minutes of the Board meeting for April 26, 1974. The staff recommends approval of the minutes.

April 26, 1974 Public Hearing

TESTIMONY GIVEN BY ROBERT E. GLASGOW, OF THOMPSON INDUSTRIES, INC.

Thompson Industry owns approximately 25 acres south of Pacific Highway near Cipole Road. The land is presently being utilized for the subtraction of sand and top soil which is being sold commercially. Of the total 25 acres, approximately 15 acres have already been excavated up to a depth of 70 feet. Only approximately a quarter acre of this land area has been filled in. Thompson Industry's land is adjacent to several other similar sand and gravel pits. The land is presently zoned MA 2. It is designated as a natural resource area in Washington County's Comprehensive Framework Plan.

I understand that a plan submitted here for approval here with respect to the Solid Waste Disposal Site in Washington County recommends the Durham site as the primary site, and the Cipole area recommended as a secondary site. It is also my understanding that the DEQ at this point in time has serious reservations about any landfill site in Washington County with particular reservation about the Durham site, and the Cipole site. However, between the two of them, it is my understanding that DEQ has more problems with the Durham site.

My client is interested in being considered as a primary landfill site. I know that some studies have been done by some agencies with regards to feasibility of certain sites. I know also that the Washington County Planning Department prepared a report in which they analyze and evaluate the Durham pit area. The conclusion is that they recommend it as a disposal site. I would point out that they did not do a comparative study, so no other sites have been considered. It is my understanding that none of the other sites have been considered at all by the Washington County Planning Department. I think that with the planning done in the last year and a half on a plan before the Board today, that it is unfortunate that in Washington County for evaluation has not been given to various potential sites. I know that Washington County has a lot of interest in the Durham site. I am not suggesting that it is the sole motivation to the recommendation that has been made. I think however, that it is quite probable that it is a fact. I hope that before this Board takes any action with respect to approving this particular site in Washington County that more consideration be given to the other sites.

I am sure that this Board is aware that in 1971 the legislature passed a mined land reclamation act which with a variety of requirements says that people doing mine work on more than a certain amount of land would have to submit a plan to be approved by the State Department of Geology. The COR-MET plan lists land reclamation as one of the goals. We have had a number of pits in the Cipole area that have been origin excavated to a large extent. I don't know what the average remaining life of deposits there are, but certainly most of the pits have some life left in them. This type of mining today

is in demand and it will certainly be to everybodys benefit to continue. The State Department of Geology's mineral industry says that if we want to continue to mine you must reclaim the pit. Up until recently, my clients and other people, have begun reclaiming their pits by accepting various types of wastes that were permitted in the past. By accepting demolition wastes, landscape wastes and things of that type. The DEQ told my client that organic wastes can no longer be accepted for disposal there. At that time at least they were not considering approval of permits that would allow this in light of the study that was going on. Finally, here we are a year later and once a particular landfill is chosen in Washington County then everything will go there with the exception of things like concrete or oversize earthmoving tires or rare items of this type.

My point is simply this, that even though this Board's primary function is to deal with the problem of how to dispose of solid waste, there are other interests. One of those interests is in the reclamation of land that is deemed necessary by the economic means of mining out property. We're talking about mining that is already done. I think to approve a plan which does not take this into consideration, which does not get input from the State Dept. of Geology and Mineral Industries, would be a mistake. Solid waste seems to be the most economical feasible means of filling some of these pits in. Philosophically through the study, the concern has been that solid waste presents a problem of geometric proportions in that we have more and more people producing more and more wastes

and we are going to run out of sites. Now a plan has been submitted that calls for 75% resource recycling by 1985, and a very small percentage of the total waste would find its way to the landfill sites. I'm not saying that's bad. It's probably the ultimate goal. Nevertheless I don't think anyone has considered this in conjunction with so much volume spaces you want to fill up. Maybe its not necessary to reduce total solid waste by 75% or 85%. Maybe its cheaper, more economically feasible and better social policy to only reduce 50% and still have 50% going into the ground, if the sites are there, if sand is coming out of the ground faster than garbage is being produced. I think that no agency, whether it be MSD or any other, can properly take action on something which they know there is State policy that has been in trust with the State Legislature in related areas, unless they know that those things are being taken care of too. The State Department of Geology and Minerals should become a part of the whole thing and this other aspect of the problem should be given full consideration before any filing has been made.

April 26, 1974 Public Hearing

TESTIMONY GIVEN BY MR. P. G. DENEVI, PRESIDENT OF SIRA CORPORATION

We have been engaged in refuse processing programs, recycling and incineration, which we have discarded at this point, for the past nine years. I am here to commend the Board and Mr. Kemper and staff on the progress you've made to go ahead and do something about your solid waste problem. I have spent the last five years travelling all over the world, I've seen every solid waste plant and system in this country. We have a process that we have been developing, and we have come up with some inovations that we have patented and which we feel will be a tremendous boon to the industry. As you know, the solid waste field is taking on. The technology is changing very rapidly. I think your steps here are good ones, and of course, they fit right in with what has been done in other parts of the country. I think that if we evaluate the various systems that you've done, the milling system which gives you proper recycling prospects, the dry system, and you can go into other things like fuel and down the line. We are a small company which just merged with a large New York Stock Exchange company and I think I would like to toss something on the table in regards to your future. We spoke briefly with some of your people to try to determine what you are going to do next and what your next step will be and certainly, I think you are well organized and you know where you are going. However, we would like to tell you a couple of things that might fill you imagination. We have experience working with hammer mills,

which very few people in this country have. We have been reducing refuse through a three stage process where we go to three hammermills and get a 1/2" product and then we have been able to pelletize that for fuel and remove the aluminum, copper, glass and so forth. We would like a cooperative effort where our company would be involved with your people where you would have control of a system. A system which is in the line of where you are going and fits in with what we are doing using our technology, our patent, our ideas and come up with a system that would be built with your funds. Our company now being associated with a New York company, a multi-million dollar company could bond the performance of this particular project. We are prepared to work with your people and develop a 1,000 ton a day plant. This plant could do 2,000 tons a day and more important we think that if we were allowed to work with your people and came up with a solution that we know is the right one, that we could process this garbage for less than \$3 a ton. We feel very confident that due to the changes in the recycling market today. We would be willing to enter into an agreement with your people where we would help you build these plants and plan it and then operate it for you and guarantee you that the cost would be less than \$3 per ton, less than \$3 per ton and probably zero. We would be willing to split the income for the recyclable. This gives the incentive to the operator. This is something that you should give considerable thought to. You're certainly not qualified to be in the solid waste business and especially to operate a plant of this magnitude and this newness. By giving us the incentive of increasing the by-product income, then we can reduce the cost to you of the dump fee. We would like certainly to explore further the

interest on your part. I think it is very possible with the decisions that you've made to go ahead and build several plants, recycle materials and use a dry process in which we have the expertise. It would be simple for us and of mutual benefit to stick together perhaps and do this for you. I think you can stop and figure out that if you are doing a couple hundred thousand tons a year, which seems to be capacity of the plant, you could save \$3 per ton from your price to begin with and then \$3 from the operation, this could save a lot of money and pay for the plant in record time. I think it's possible. I think you'll see this happening throughout the country and in the near future. I do believe that a plan of that kind has a lot of merit and we would like to discuss it with your people.

April 26, 1974

Comments

MSD Solid Waste Management Plan

1. The choice of a boundary in a systems study is crucial in determining the set of alternative plans which will be considered feasible. The arbitrary assumption of the MSD study to exclude consumers, contractors, householders, manufacturers, packagers and new legislation suggests that the best plans were excluded from the study from the very beginning.

2. The U.S. trends point to higher energy costs and increased unemployment and underemployment in the next five to fifteen years. Contrary to this trend, the MSD Plan B uses large amounts of energy intensive capital and excludes human labor. No policy can succeed unless it is consistent with available resources.

3. Detailed and comprehensive net energy studies are needed for alternative plans ranging from labor intensive to capital intensive configurations.

Richard C. Duncan
Systems Science Ph.D. Program

RCD:kp

April 26, 1974 Public Hearing

TESTIMONY GIVEN BY MR. ANDREW J. SPIAK

I am a concerned resident of Washington County and what I want to talk about is not only the new proposed situation, but the existing landfills that we do have at the present time. I live in the area of Frank landfill and I am concerned about what is taking place and what kind of controls are actually maintained on this site. At the present time their so-called earth filled dikes which supposedly are impermeable are leaching very badly. Black leachate and sludge is poring out of their dikes. This is flowing down into a lower plain where they have a culvert going directly into the river. It is also coming out of the south side which goes directly into the river from that bank and is approximately 100 feet from the Tualatin River. I would like to know who controls that site and what can be placed in there and what type of restriction are held up on this site.

April 26, 1974 Public Hearing

TESTIMONY GIVEN BY MRS. RAY GRIMM, MEMBER OF CONSUMER FOOD COUNCIL

Our group has worked for the last two or three years trying to encourage people to buy selectively and to recycle materials at home. I would like to express very strong support for the statements made by Mr. Duncan. We are very enthused about MSD's efforts and the whole idea of recycling, but I think the energetics study is a tremendously vital thing. One thing that we have been concerned with is that when you build a system where wastefulness is not really harmful. If the householder can say that it doesn't really matter how much I throw out, it will be recycled or whatever. Isn't it true that if a householder separates you begin to examine what you are purchasing. How you are using things. How you're living. I think that Mr. Duncan made a lot of sense. Maybe it's too late, but I would like to say that I think the energetics study is something that is critical through the whole system. I think the concepts that an individual household is more involved in the process, you will get more responsible purchasing and use of materials.

65 S. W. 93rd Avenue
Portland, Oregon 97225
April 25, 1974

Mr. Robert Schumacher, Chairman
Metropolitan Service District
6400 S. W. Canyon Court
Portland, Oregon 97201

Dear Mr. Schumacher:

The purpose of this letter is to comment on the Solid Waste Management Action Plan prepared for your consideration by COR-MET. In our opinion, this plan falls far short of the needed, long term solution to solid waste management in the metropolitan area. Our objections are as follows:

The report recommends the adoption of one of four alternatives to solid waste management. However, all of the alternatives considered were based on the assumption that the present method of solid waste collection; i.e., mixed refuse pickup and hauling would be continued indefinitely. The engineering consulting firm interpreted its responsibility only in terms of "collection as usual" solid waste management in which source separation was not considered, an unfortunate interpretation approved by the MSD Board in the Summer of 1973. However, the Department of Environmental Quality cannot responsibly approve this plan without review of the total problem of material and energy conservation, wherein the question of source separation would undoubtedly receive primary attention as a fundamental alternative to present practice.

Consequently, our recommendation is:

The Solid Waste Management Action Plan be accepted only on the condition that (1) a solid waste management study be immediately commissioned to cover alternatives of source separation and collection; and (2) these alternatives together with the COR-MET Plan be subjected to a net energy analysis and recommendation by the Oregon Office of Energy Research and Planning; and (3) no further grants or contracts directed toward the implementation of the COR-MET Plan be awarded until the first two conditions are complete.

The COR-MET Plan does not adequately speak to nor guarantee the DEQ goal of 90% recycling by 1982. There is general language to the effect that as technology and the economy permit, additional material recovery will be possible; however, hard evidence supporting the argument that the transfer station concept will meet the recycling goal is thin at best.

Finally, the COR-MET report substantially ignores the impact of energy shortages and the growing scarcity of non-renewable resources on the future of its own plan. Many experts believe that solid "waste" is now and will continue to grow in stature as an economic asset. Hence, the competition for the separated material at the source will increase in intensity thus diminishing the amount. Thus, only by noxious, repressive ordinances which force compliance by prohibiting source separation and individual marketing of materials, could the COR-MET Plan be forced to work.

Sincerely,
Mr. and Mrs. Robert W. Coffin
Mr. and Mrs. Robert W. Coffin



Mr. Chuck Kemper
Program Manager
Metropolitan Service District
6400 S.W. Canyon Ct.
Portland, Ore. 97221

PUBLIC TESTIMONY

RECEIVED
APR 23 1974
COLUMBIA REGION ASS'N.
OF GOVERNMENTS

April 22, 1974

Dear Mr. Kemper,

The Columbia Group of the Sierra Club wishes to commend the Metropolitan Service District for its work in developing and promoting Plan B, Regional Milling, as a solution to the solid waste problems of Clackamas, Columbia, Multnomah, and Washington Counties. In addition, the Columbia Group hereby places itself on record in support of the plan which proposes milling and shredding of wastes, recovery of secondary materials, and land reclamation through sanitary landfilling of unrecoverable residues. Solid waste can no longer be thought of as garbage. Instead, it must be considered a vast manmade resource which should be fully utilized in terms of resource recovery in order to decrease both escalating demands on our raw materials and energy supplies and the resulting environmental damage associated with their extraction.

In line with the goals of resource recovery and reduced energy consumption, we wish to make the following recommendations concerning Plan B:

1. We understand that trucking milage^e will be reduced 45% over the existing scheme of disposal and will, therefore, lead to a net reduction in energy consumption. However, in light of the growing scarcity of energy resources, we urge that the total plan be evaluated in terms of net energy consumption, so that the plan may be made even more energy efficient.

Pacific Northwest Chapter
SIERRA CLUB

2637 S.W. Water Street • Portland, Oregon 97201 • (503) 222-1963



2. We support maximum direct recycling of all materials and urge that the Metropolitan Service District continually explore and implement ways of economically recovering aluminum, glass, and ledger paper.

3. We urge the Metropolitan Service District to develop plans for cooperating with private recyclefs and assisting them in streamlining and expanding their operations throughout the four county area.

4. On a broader level, we wish to emphasize that the ultimate solution to the solid waste problem is source reduction. The Oregon Bottle Bill is an important step in this direction. We , therefore, urge the Metropolitan Services District to add its voice to those supporting and promoting local, state, and national legislation requiring substitution of directly recyclable containers for disposable packaging.

Recognizing, however, that limits to the extent of source reduction exist, we reiterate our support for Plan B which we wish to see implemented and expanded to maximize resource recovery and minimize net energy consumption required for total solid waste management.

Sincerely,

Tom Rocks

Urban Affairs Coordinator

Pacific Northwest Chapter
SIERRA CLUB

2637 S.W. Water Street • Portland, Oregon 97201 • (503) 222-1963

II. ACCOUNTS PAYABLE

The following pages contain Accounts Payable for the months of January, February and March of 1974 in the total amount of \$9,813.74. The staff recommends approval of the Accounts Payable.

APPROVED METROPOLITAN
SERVICE DISTRICT
BOARD OF DIRECTORS

ACTION NO. 74-111

DATE 4-26-74

BY Jean McWood
CLERK OF THE BOARD

METROPOLITAN SERVICE DISTRICT

CHARGES FOR JANUARY 1974

PHASE II

LABOR CHARGES

CHARGE
NUMBER

AMOUNT

Q-101
Q-103

\$ 1,332.73
409.20

TOTAL

\$ 1,741.93

METROPOLITAN SERVICE DISTRICT

CHARGES FOR FEBRUARY 1974

P H A S E I I

| CHARGE NUMBER | REQUISITION NUMBER | PAYMENT TO | AMOUNT |
|------------------|-----------------------|---------------------------|----------|
| Q-101 | 799 | Expenses | \$ 4.44 |
| Q-101 | 849 | The Printshop | 22.00 |
| Q-101 | 854 | Portland Stamp | 12.54 |
| Q-101 | 866 | Daily Journal of Commerce | 6.40 |
| Q-102 | 865 | The Printshop | 22.25 |
| | | | <hr/> |
| | | | \$ 67.63 |

LABOR CHARGES

| | |
|-------|-------------|
| Q-101 | 2,238.34 |
| Q-102 | 455.98 |
| Q-103 | 953.20 |
| | <hr/> |
| | \$ 3,647.52 |

| | |
|-------|-------------------------|
| TOTAL | <hr/> <hr/> \$ 3,715.15 |
|-------|-------------------------|

METROPOLITAN SERVICE DISTRICT

CHARGES FOR MARCH 1974

P H A S E I I

| CHARGE NUMBER | REQUISITION NUMBER | PAYMENT TO | AMOUNT |
|------------------|-----------------------|---------------------------|----------|
| Q-101 | 898 | Audio Visual | \$ 12.06 |
| Q-101 | 919 | The Heil Company | 10.00 |
| Q-101 | 920 | McGraw Hill Company | 11.95 |
| Q-101 | 922 | Daily Journal of Commerce | 5.76 |
| Q-101 | 959 | Expenses | 12.94 |
| Q-101 | 959 | Expenses | 5.58 |
| Q-101 | 959 | Expenses | 11.00 |
| Q-101 | 983 | McGraw Hill | 13.44 |
| Q-101 | 994 | Daily Journal of Commerce | 6.40 |
| Q-102 | 926 | J.K. Gill | 13.95 |
| Q-103 | 959 | Expenses | .25 |

\$ 103.33

LABOR CHARGES

| | |
|-------|-------------|
| Q-101 | \$ 2,583.60 |
| Q-102 | 462.29 |
| Q-103 | 1,207.44 |

\$ 4,253.33

TOTAL \$ 4,356.66

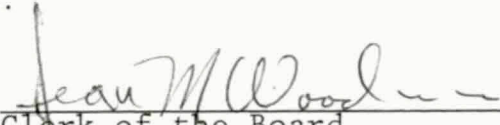
III. PUBLIC HEARING- SOLID WASTE MANAGEMENT PLAN ADOPTION
ORDINANCE NO. 9

As you know, the first Public Hearing for the Solid Waste Management Plan Adoption Ordinance was held on April 12, 1974. Since that time, the MSD staff has held public meetings in Clackamas, Columbia, Multnomah, and Washington Counties to discuss public reaction to the MSD Solid Waste Management Plan. The public present at the meetings were encouraged to present testimony at the second Public Hearing.

Generally, the plan was favorably received and no apparent major difficulties were encountered. The staff recommends the Board formally adopt the Solid Waste Management Plan Adoption Ordinance No. 9.

AMENDMENT TO STAFF REPORT

Board received testimony but did not adopt Ordinance No. 9. It will be adopted on May 10, 1974.


Clerk of the Board

wo. 74-112

ORDINANCE NO. 9

An Ordinance approving and adopting the Solid Waste
Management Plan.

O R D I N A N C E

No. 9

An Ordinance approving and adopting the Solid Waste Management Plan.

THE METROPOLITAN SERVICE DISTRICT HEREIN ORDAINS THE FOLLOWING:

SECTION 1 - Engineering Plan

The Board approves and adopts the Solid Waste Management Plan, Volume I and Volume III, dated March 8, 1974, prepared by COR-MET pursuant to the agreement between the Metropolitan Service District and COR-MET, approved by Ordinance #1 on February 2, 1973.

SECTION 2 - Financial Plan

The Board approves and adopts the Solid Waste Management Plan, Volume II, dated March 22, 1974, prepared by Bartle-Wells and Associates pursuant to the agreement between the Metropolitan Service District and Bartle-Wells and Associates approved by Ordinance #1 on February 2, 1973.

SECTION 3 - Filing of Plan

The Solid Waste Management Plan composed of Volumes I, II and III, are made a part of this Ordinance as if fully set out herein and shall be attached hereto and filed in the official records of the district and in any other records where ordinances of the district are by law required to be filed.

Robert Schumacher, Chairman
Metropolitan Service District

James Robnett, Vice Chairman
Metropolitan Service District



PUBLIC TESTIMONY

RECEIVED
APR 22 1974

COLUMBIA REGION ASS'N.
OF GOVERNMENTS

Mr. Chuck Kemper
Program Manager
Metropolitan Service District
6400 S.W. Canyon Ct.
Portland, Ore. 97221

April 22, 1974

Dear Mr. Kemper,

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In line with the goals of resource recovery and reduced energy consumption, we wish to make the following recommendations concerning Plan B:

1. We understand that trucking mileage will be reduced 45% over the existing scheme of disposal and will, therefore, lead to a net reduction in energy consumption. However, in light of the growing scarcity of energy resources, we urge that the total plan be evaluated in terms of net energy consumption. so that the plan may be made even more energy efficient.



2. We support maximum direct recycling of all materials and urge that the Metropolitan Service District continually explore and implement ways of economically recovering aluminum, glass, and ledger paper.

3. We urge the Metropolitan Service District to develop plans for cooperating with private recyclefs and assisting them in streamlining and expanding their operations throughout the four county area.

4. On a broader level, we wish to emphasize that the ultimate solution to the solid waste problem is source reduction. The Oregon Bottle Bill is an important step in this direction. We , therefore, urge the Metropolitan Services District to add its voice to those supporting and promoting local, state, and national legislation requiring substitution of directly recyclable containers for disposable packaging.

Recognizing, however, that limits to the extent of source reduction exist, we reiterate our support for Plan B which we wish to see implemented and expanded to maximize resource recovery and minimize net energy consumption required for total solid waste management.

Sincerely,

Tom Rocks

Urban Affairs Coordinator

- 14 -

Pacific Northwest Chapter
SIERRA CLUB

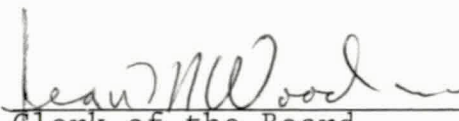
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IV. PROGRESS REPORT - PHASE II SOLID WASTE ENGINEERING
COR-MET

The following pages include the COR-MET Progress Report for Phase II solid waste implementation engineering work. The staff recommends the Board accept the report.

AMENDMENT TO STAFF REPORT

Board received COR-MET Progress Report dated April 19, 1974, however, they neglected to formally accept the report.


Clerk of the Board
No. 74 - 113



CORNELL, HOWLAND, HAYES & MERRYFIELD
METCALF & EDDY

1600 S.W. FOURTH AVENUE, SUITE 601

PORTLAND, OREGON 97201

503/224-9190

April 19, 1974

Metropolitan Service District Board
6400 S.W. Canyon Court
Portland, Oregon 97221

Subject: Progress Report, MSD Solid Waste Management
Action Plan Phase II

Gentlemen:

In the period from January 1974 to the present, we have accomplished several important tasks in the Phase II implementation of the solid waste management plan, as well as completing our work on Phase I.

Our work on Phase II is described briefly in the following paragraphs.

Additional Hydrogeological Information. In a January 15 meeting among representatives of MSD, DEQ, and COR-MET to discuss Volume I of the report, additional hydrogeological information was requested by DEQ for the proposed regional disposal sites. A subsequent meeting was held between COR-MET representatives and the State Hydrogeologist to determine detailed requirements, and an in-depth analysis of ground-water conditions at potential disposal sites was then conducted from existing data and summarized. It was agreed with representatives of MSD that although this additional work would be covered under the Phase II contract it would be beneficial to include the results in the Phase I report. This information has therefore been incorporated into Appendix L, Volume III, of the report.

Modifications to the Recommended System. The report entitled "A Viewpoint of the Solid Waste Industry" was evaluated, and comments were submitted to the Board on February 14. The subsequent modifications, as directed by the Board to be made to the original recommended system, were then analyzed for their effect on system costs and operations. A summary of those system modifications and effects is included as Chapter 19, Volume I, of the Phase I report. Additional information on the system modifications has been supplied directly to Bartle Wells Associates for their financial planning.



Metropolitan Service District Board
April 19, 1974
Page Two

Transfer Station Sites. We have begun our investigation of actual site locations for the four proposed milling-transfer stations. For each station, we have identified several potential sites and are now determining the following information for each site: legal description, owner, assessed valuation, zoning, surrounding land use, apparent required improvements, and general pros and cons. Once this information has been completed, we will list the alternatives for each station in order of apparent priority and then submit all information to the MSD staff for review and action. We currently anticipate a May 3 completion date for this information.

Market Development for Light Combustible Materials. We are expanding the Phase I market analyses for the light combustible materials and have already talked in more detail with some potential customers. This effort will be expanded during the month of May. In talking with the potential customers, we will endeavor to determine materials specifications, probable purchase quantities, and possible range of buying prices. The materials specifications will be particularly useful for selecting appropriate milling and separation equipment for the transfer stations.

General Advice and Support to MSD Staff. We remain available to the MSD staff for advice and support on an on-call basis. Included in this function have been discussions on program policy and directions as well as requested attendance at Board meetings, TAC meetings, and other meetings.

In the coming weeks, we will continue our efforts in establishing transfer station sites and markets for light combustible materials. In addition, we will begin work on the environmental impact assessments for the transfer station sites.

Sincerely,

COR-MET

J. Melissa Brown

J. Melissa Brown
Project Manager

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V. RESOLUTIONS FOR LOCAL GOVERNMENT SUPPORT OF THE SOLID WASTE
MANAGEMENT PLAN

The following pages contain resolutions that are proposed for local government approval of the MSD Solid Waste Management Plan. The resolutions were prepared for Clackamas, Multnomah, Washington and Columbia Counties as required by DEQ under formal assurances in the MSD/DEQ Phase II (SWP 111) agreement.

The MSD staff recommends the Board authorize transmittal of these resolutions to local jurisdictions after adoption of Solid Waste Management Plan Ordinance No. 9.

AMENDMENT TO STAFF REPORT

Cities included for receipt of the resolutions.

APPROVED METROPOLITAN
SERVICE DISTRICT
BOARD OF DIRECTORS
ACTION NO. 74-114
DATE 4-26-74
BY [Signature]
CLERK OF THE BOARD

R E S O L U T I O N N O. _____

A RESOLUTION APPROVING IN CONCEPT THE MSD SOLID WASTE MANAGEMENT
PLAN FOR CLACKAMAS COUNTY

WHEREAS the MSD was established by the voters of the Tri-county
area in 1970; and

WHEREAS the Board of Directors of the MSD is composed of representa-
tives from the cities of Washington, Multnomah and Clackamas
Counties, representatives of Washington, Multnomah and Clackamas
Counties, and a representative from the City of Portland; and

WHEREAS the purpose of the MSD is to make available in metropolitan
areas public services not adequately available through previously
authorized governmental agencies; and

WHEREAS the MSD Board by adoption of Ordinance No. 1 "Relating to
a contract for a Solid Waste Management Study" approved the contract-
ing services between the MSD and COR-MET and Bartle-Wells Associates
for a joint venture, whereby COR-MET and Bartle-Wells agree to
perform specific tasks for the MSD including the development of
a regional solid waste plan; and

WHEREAS COR-MET and Bartle-Wells Associates have completed the
Solid Waste Management Plan and submitted it to the MSD, which

after review and amendment, adopted the Solid Waste Management Plan by Ordinance No. 9 on April 26, 1974; and

WHEREAS MSD has entered into an agreement with the Columbia Region Association of Governments (CRAG) to perform solid waste planning in the CRAG Region; and

WHEREAS the MSD, through funds granted by the Department of Environmental Quality, has developed the Solid Waste Management Plan for the entire CRAG Region in Oregon; and

WHEREAS Clackamas County is included in the CRAG Region and most of the population centers in the county are contained within the MSD boundaries; and

WHEREAS Clackamas County recognizes the need for a regional Solid Waste Plan and the necessity of the entire county being considered in the planning and implementation of such a plan:

THEREFORE BE IT RESOLVED that Clackamas County agrees to and approves in concept of the implementation of the MSD Solid Waste Management Plan in the county, including those areas of the county outside of the prescribed boundaries of the Metropolitan Service District.

Adoption Date:

R E S O L U T I O N N O. ____

A RESOLUTION APPROVING IN CONCEPT THE MSD SOLID WASTE MANAGEMENT PLAN FOR MULTNOMAH COUNTY

WHEREAS the MSD was established by the voters of the Tri-county area in 1970; and

WHEREAS the Board of Directors of the MSD is composed of representatives from the Cities of Washington, Multnomah and Clackamas Counties, representatives of Washington, Multnomah and Clackamas Counties, and a representative from the City of Portland; and

WHEREAS the purpose of the MSD is to make available in metropolitan areas public services not adequately available through previously authorized governmental agencies; and

WHEREAS the MSD Board by adoption of Ordinance No. 1 "Relating to a contract for a Solid Waste Management Study" approved the contracting services between the MSD and COR-MET and Bartle-Wells Associates for a joint venture, whereby COR-MET and Bartle-Wells agree to perform specific tasks for the MSD including the development of a regional solid waste plan; and

WHEREAS COR-MET and Bartle-Wells Associates have completed the Solid Waste Management Plan and submitted it to the MSD, which after review and amendment, adopted the Solid Waste Management Plan by Ordinance No. 9 on April 26, 1974; and

WHEREAS MSD has entered into an agreement with the Columbia Region Association of Governments (CRAG) to perform solid waste planning in the CRAG Region; and

WHEREAS the MSD, through funds granted by the Department of Environmental Quality, has developed the Solid Waste Management Plan for the entire CRAG Region in Oregon; and

WHEREAS Multnomah County is included in the CRAG Region and most of the population centers in the county are contained within the MSD boundaries; and

WHEREAS Multnomah County recognizes the need for a regional Solid Waste Plan and the necessity of the entire county being considered in the planning and implementation of such a plan:

THEREFORE BE IT RESOLVED that Multnomah County agrees to and approves in concept of the implementation of the MSD Solid Waste Management Plan in the county, including those areas of the county outside of the prescribed boundaries of the Metropolitan Service District.

Adoption date:

R E S O L U T I O N N O. _____

A RESOLUTION APPROVING IN CONCEPT THE MSD SOLID WASTE MANAGEMENT
PLAN FOR WASHINGTON COUNTY

WHEREAS the MSD was established by the voters of the Tri-county
area in 1970; and

WHEREAS the Board of Directors of the MSD is composed of representa-
tives from the Cities of Washington, Multnomah and Clackamas
Counties, representatives of Washington, Multnomah and Clackamas
Counties, and a representative from the City of Portland; and

WHEREAS the purpose of the MSD is to make available in metropolitan
areas public services not adequately available through previously
authorized governmental agencies; and

WHEREAS the MSD Board by adoption of Ordinance No. 1 "Relating to
a contract for a Solid Waste Management Study" approved the
contracting services between the MSD and COR-MET and Bartle-Wells
Associates for a joint venture, whereby COR-MET and Bartle-Wells
agree to perform specific tasks for the MSD including the develop-
ment of a regional solid waste plan; and

WHEREAS COR-MET and Bartle-Wells Associates have completed the
Solid Waste Management Plan and submitted it to the MSD, which
after review and amendment, adopted the Solid Waste Management Plan
by Ordinance No. 9 on April 26, 1974; and

WHEREAS MSD has entered into an agreement with the Columbia Region Association of Governments (CRAG) to perform solid waste planning in the CRAG Region; and

WHEREAS the MSD, through funds granted by the Department of Environmental Quality, has developed the Solid Waste Management Plan for the entire CRAG Region in Oregon; and

WHEREAS Washington County is included in the CRAG Region and most of the population centers in the county are contained within the MSD boundaries; and

WHEREAS Washington County recognizes the need for a regional Solid Waste Plan and the necessity of the entire county being considered in the planning and implementation of such a plan:

THEREFORE BE IT RESOLVED that Washington County agrees to and approves in concept of the implementation of the MSD Solid Waste Management Plan in the county, including those areas of the county outside of the prescribed boundaries of the Metropolitan Service District.

Adoption date:

R E S O L U T I O N N O. ____

A RESOLUTION AGREEING TO AND APPROVING IN CONCEPT THE IMPLEMENTATION OF THE MSD SOLID WASTE MANAGEMENT PLAN IN COLUMBIA COUNTY

WHEREAS the MSD was established by the voters of the Tri-county area in 1970; and

WHEREAS the purpose of the MSD is to make available in metropolitan areas public services not adequately available through previously authorized governmental agencies; and

WHEREAS the MSD Board by adoption of Ordinance No. 1 "Relating to a contract for a Solid Waste Management Study" approve the contracting services between the MSD and COR-MET and Bartle-Wells Associates for a joint venture, whereby COR-MET and Bartle-Wells agree to perform specific tasks for the MSD including the development of a regional Solid Waste Management Plan; and

WHEREAS COR-MET and Bartle-Wells Associates have completed the Solid Waste Management Plan and submitted it to the MSD, which after review and amendment, adopted the Solid Waste Management Plan by Ordinance No. 9 on April 26, 1974; and

WHEREAS MSD has entered into an agreement with the Columbia Region of Governments (CRAG) to perform solid waste planning in the CRAG region; and

WHEREAS the MSD, through funds granted by the Department of Environmental Quality, has developed the Solid Waste Management Plan for the entire CRAG Region in Oregon; and

WHEREAS Columbia County, though not located within the MSD boundaries, is included in the CRAG Region; and

WHEREAS Columbia County recognizes the need for a regional solid waste plan and the necessity of the entire county being considered in the planning and implementation of such a plan:

THEREFORE BE IT RESOLVED that Columbia County agrees to and approves in concept of the implementation of the MSD Solid Waste Management Plan in Columbia County.

Adoption date:

VI. REPORT CONCERNING WASHINGTON COUNTY SANITARY LANDFILL
SITE SELECTION

The attached pages contain a report adopted by the Washington County Board of Commissioners on April 16, 1974. This report recommends that Washington County identify the Durham Pit area as the County's possible primary solid waste disposal site.

The MSD staff recommends the Board accept this report and authorize staff to transmit the report's recommendations to the Department of Environmental Quality. Further, it is recommended the staff be authorized to discuss with DEQ their areas of concern and the course of action that MSD should follow concerning the development of the Durham Pits as a regional sanitary landfill.

APPROVED METROPOLITAN
SERVICE DISTRICT
BOARD OF DIRECTORS

ACTION NO. 74-115

DATE 4-26-74

BY Jean M. Wood
CLERK OF THE BOARD

WASHINGTON COUNTY BOARD OF COMMISSIONERS
Staff Report
April 9, 1974

SUBJECT: Durham Gravel Pit Study

PREPARED BY: Washington County Department of Planning

PURPOSE OF STUDY

The Board of County Commissioners ordered a land use feasibility study of the County owned Durham Gravel Pits on October 16, 1973. The purpose of the study is to provide the necessary information for response to an offer from U.S. Ban Trust Corporation to purchase the County owned land. The study will also provide information regarding future land use.

LOCATION

The subject property is located in the southeastern part of the County, a few hundred feet west of the Clackamas County line. The property is bordered on the west by the incorporated City of Durham with the southern 16.61 acres of the site lying within the City of Tualatin. The property is also bordered by SW 72nd Avenue on the east and Boones Ferry Road on the west. The property consists of 69.97 acres.

COMPREHENSIVE PLAN DESIGNATIONS

Framework Plan - Urban Area

Community Plan - Plan of Development No. 3 designation Industrial

Existing Zoning - Unincorporated Washington County - MA-1; City of Tualatin - M-3.

NATURAL CHARACTERISTICS

Physiography

The land surrounding the subject property slopes gently from a low, flat ridge which runs just north of Bridgeport Road toward Fanno Creek to the northwest and southeast toward the Tualatin River. Most of the subject property has been excavated, however, a small parcel on the east side of SW 72nd Avenue encompassing approximately 6 acres is in its natural wooded state.

Geology

The gravel bed which the County is exploiting at Durham was deposited in an alluvial delta over older clay sediments known as the Troutdale formation. Due to its origin the gravel is poorly sorted and heterogenous, ranging in size from large boulders down to substantial proportions of sand and clay fines. Consequently, the gravel crushed from this pit is of uneven quality, incapable of meeting exacting engineering specifications for certain applications such as aggregate for concrete. The material is also subject to deterioration due to weathering, hence, the gravel produced is used primarily for gravel roads and shoulders, some oil rock, sand, and rip-rap.

Hydrology

Surface drainage presents few problems due to the position of the subject property on high ground, sloping gently toward Fanno Creek to the northwest, the Tualatin River to the south and a small swale to the northeast. Permeability of the soil and underlying gravel beds also reduces runoff.

The water table in the vicinity subject property apparently stands at an elevation of about 110 feet mean sea level at its southern end, rising to approximately 130 feet to the northwest. Normal seasonal fluctuation is about 12 feet although exceptionally dry summers may cause the water table to drop another 3 feet. The gravel formation which the County is mining is the aquifer from which local residents take their domestic water. Some commercial and industrial wells in the area also utilize this aquifer.

Pedology

The vast majority of the site has been excavated. The undisturbed soil consists almost entirely of Briedwell Stony Silt Loam on slopes of 0-7 and 7-12 percent slope. Briedwell Stony Silt Loam soil is evaluated by the Soil Conservation Service as having slight to moderate limitation for septic tank filter fields, however pollution of water supplies is a hazard. The soil imposes only slight limitations for residential and commercial buildings, and is so well drained internally that artificial drainage improvements are generally not required.

URBAN SERVICES

Transportation

The subject property has excellent vehicular access by virtue of its location adjacent to an interchange on Interstate Highway 5, and with additional access from a second interchange between I-5's junction with State Highway 217 and Interstate Highway 205. Access to the site is also provided by four arterial streets: SW 72nd Avenue, SW Upper Boones Ferry Road, SW Lower Boones Ferry Road and Durham Road.

Public Transportation

Public transportation access to the site is presently provided by Tri-Met's Oswego - North Shore - Tualatin and Wilsonville - Mountain Park bus routes, which pass the site along Upper Boones Ferry Road.

The 1990 Bus Rapid Transit System recommended by CRAG by Deleuw, Cather and Company proposes that the Wilsonville - Mountain Park bus route be converted to express service north of the Lower Boones Ferry Road interchange from which it would be routed over I-5 and State Highway 217 to a park-and-ride station in Tigard. A transfer station with parking for 50 to 100 cars would be provided at the interchange of I-5 and Lower Boones Ferry Road to encourage park-and-ride patronage.

Light Rail

A report is currently being prepared on a proposed regional light rail system within the region. Preliminary analysis identifies an express transit route which would follow the Southern Pacific right-of-way northeast and south of the site - but not immediately adjacent to the subject property. The light-rail corridor would cross Upper Boones Ferry Road approximately 700 feet northeast of the subject property.

Rail Service

Rail service for freight transfer could be provided to the site by extension of the Burlington Northern Railroad, or by the Southern Pacific Railroad. Rail service would require extension of a spur across Upper Boones Ferry Road.

Sanitary Sewers

The subject property is within the service area boundary of the Unified Sewerage

Agency. Sewer service is not presently available, however, the City of Tualatin has an 8 inch main on Lower Boones Ferry Road approximately one-quarter of a mile southeast of the site. Most of the site drains toward Fanno Creek to the northwest, and will be more appropriately sewered into the Fanno Creek Interceptor and treatment plant which is scheduled for completion in 1976.

Water

Water is presently supplied to the perimeter of the site by the Lake Grove Water District and the City of Tualatin. However, availability of water for regular consumption by new users is severely restricted at present by the limited capacity pumping stations and water main pipe sizes. Alleviation of the water shortage awaits implementation of phase two of the Tualatin Basin Water Plan after 1985.

Electricity

The site is adequately served by Portland General Electric Company.

LAND USE

Existing Land Use

The subject property is located in a partially developed industrial area adjoining a residential area to the west. Some commercial uses are clustered by the freeway interchanges, especially at Lower Boones Ferry Road, and scattered in a few other locations. A considerable amount of vacant land remains scattered throughout the area.

Land Use Plans

In addition to the Washington County Comprehensive Land Use Plan designations, the subject property is also identified on the Comprehensive Land Use Plans of the Cities of Tualatin, Durham and Tigard. While all of the land use plans offer subtle differences, they all identify the subject property for urban development with mixtures of residential, commercial and industrial developments.

METROPOLITAN SERVICE DISTRICT INPUT

The Metropolitan Service District is nearing the completion of its regional solid waste disposal study, preliminary reports published by MSD have identified three sanitary landfill sites within Washington County in which to dispose of the output from a solid waste transfer and milling facility also located within the County. The primary site identified within Washington County is the Durham Pits, with additional sites at Cipole and north of the City of North Plains known as "Old Pumpkin."

The need for the three landfills was based on projections of a cumulative total consumption of some 20 million cubic yards of landfill capacity by the year 2000. This projection was based on two conservative assumptions: (1) the density of compaction; and (2) that no appreciable volume of material would be reclaimed from the waste stream.

Further studies by MSD's consultants subsequently revealed that it would be profitable to recover corrugated cardboard, ferrous metal, and light weight combustible material from the solid wastes collected. The MSD Board of Directors consequently adopted a modified proposal under which some 75% by-weight of the processable solid wastes collected would be recycled. Thus only 25% of the wastes collected and processed would need to be landfilled. Under these revised assumptions, only between 2.8 and 3.7 million cubic yards of landfill capacity would be required for Washington County through the year 2000 instead of the initial projection of 20 million cubic yards.

FINDINGS

- A. Gravel supplies within the Metropolitan Area are in short supply and those resource areas available should be utilized to their maximum potential.
- B. At the present rate of extraction (35,000 to 50,000 cubic yards per year) which the County is removing gravel the gravel supply will last approximately 30 to 35 years.
- C. The site should be rehabilitated and developed for urban land use because:
 1. There is substantial commitment to urban uses nearby.
 2. The site has excellent vehicular access by I-5 and local streets.
 3. Public transportation is available.
 4. Rail service could be easily provided.
 5. The site is within the Unified Sewerage Agency District.
 6. Water will be available in adequate supply after 1985.
 7. The Washington County Comprehensive Framework Plan and other Comprehensive Plans designate the site for urban uses, as well as the land use plans of the incorporated cities in the area.
- D. The staff finds sanitary landfilling to be the most practical way to rehabilitate the exhausted gravel pits. It appears that all technical and environmental problems of landfilling at the Durham site can be adequately solved. Cost estimates prepared by MSD's consultants indicate that the proposed Durham landfill would be less expensive to operate than either of the other identified sites.
- E. Under the revised MSD assumptions regarding compaction and recycling of solid waste material, the Durham site would meet Washington County's landfill needs for the next 25 to 30 years.
- F. Based upon the premise that the extraction of gravel should be maximized and the site rehabilitated for an intensive urban use, it is premature to develop a detailed land use plan for the site considering the time factor for rehabilitation of the site.
- G. To provide the greatest opportunity and to meet the needs of the community, consideration should be given to expanding the County's holdings in the immediate area for gravel extraction, landfilling, and to provide a more feasible and cohesive unit for land use utilization and planning purposes.

RECOMMENDATIONS

Based upon the above findings, the Department of Planning recommends:

1. Washington County retain its ownership of the subject property.
2. Gravel resources within the subject area be used to a maximum potential.
3. That the site be rehabilitated at the earliest possible time for utilization for an intensive urban use.
4. Washington County identify the Durham Pit Site as County's ^{possible} primary solid waste disposal site and transmit this recommendation to the MSD Board, as sanitary landfilling of this site is a practical and feasible means of rehabilitating the gravel pits.

5. Washington County and MSD coordinate their efforts to expand the existing publically held properties to provide for a more feasible unit for gravel extraction, landfill rehabilitation and ultimate urban land development, subject to a positive determination pursuant to recommendation #4
6. A detailed site development plan for intensive urban use be developed four years prior to the completion of the rehabilitation of the site, recognizing that it is premature to do a detailed plan at this time.

VII. MSD 1974-75 BUDGET

The proposed Fiscal 1974-75 Budget for MSD has been previously transmitted to the Board. In order to adhere to local Budget rules, this Budget must be filed with the Tax Supervising and Conservation Commission (TSCC) by May 15, 1974. Subsequent to that time, the TSCC will review the Budget and schedule public hearings. It should be pointed out that the format for this has been developed to provide MSD with flexibility for the future.

The staff recommends approval of the Budget and authorization for the Budget to be filed with the TSCC.

APPROVED METROPOLITAN
SERVICE DISTRICT
BOARD OF DIRECTORS,

ACTION NO. 74-116

DATE 4-26-74

BY Jean M. Wood
CLERK OF THE BOARD

VIII. JOHNSON CREEK DRAINAGE MANAGEMENT PROGRAM

As you remember at the last meeting, the Board approved performing several tasks with funds remitted from the defunct Johnson Creek Drainage District. Also at the last meeting the staff presented a recommendation from the TAC that "The MSD Board support the Phase I study for Johnson Creek Drainage Basin at the estimated cost of \$25,000 and that these funds be provided by involved jurisdictions or through the availability of state and federal grant monies."

Subsequent to that meeting, the staff directed a letter to the DEQ requesting review of the MSD proposed drainage program and possible state support. In addition, the staff reapportioned proposed local participation by area. These figures are presented below:

| | <u>Area (mile²)</u> | <u>Loan (\$)</u> |
|-----------------------|--------------------------------|------------------|
| Clackamas County | 13.6 | \$4,777.00 |
| Multnomah County | 29.5 | 10,360.00 |
| City of Portland | 6.7 | 2,363.00 |
| State of Oregon (DEQ) | fixed | 7,500.00 |
| | <hr/> | <hr/> |
| | 49.75 | \$25,000.00 |

For your information:

| | | |
|-------------------|-----|---|
| City of Gresham | 2.3 | - |
| City of Milwaukie | 1.7 | - |

It is recommended the Board authorize formal request of a loan from local jurisdictions to perform Phase I as defined in the MSD Proposed Drainage Management Program for the Johnson Creek Basin. Further, it is recommended the Board authorize establishment of a Drainage Commission to review matters concerning drainage management for the MSD.

APPROVED METROPOLITAN
SERVICE DISTRICT
BOARD OF DIRECTORS

ACTION NO. 74-117 + 118

DATE 4-26-74

BY Jean M Wood
CLERK OF THE BOARD

RESOLUTION AUTHORIZING FORMATION OF AN MSD DRAINAGE COMMISSION

WHEREAS the Metropolitan Service District recognizes that advisory citizen participation and input is necessary and desirable; and

WHEREAS the MSD is expanding into a new area of concern - drainage and flood control; and

WHEREAS in particular the MSD is in the process of studying the Johnson Creek Basin; and

WHEREAS an advisory commission could effectively insure citizen participation in the drainage area:

THEREFORE BE IT RESOLVED that the MSD Board of Directors does create and approve a Drainage Commission which will be composed of citizens and technical experts who will advise the MSD Board of Directors on all matters pertaining to drainage and flood control management. Further, this Commission will be composed of eleven to fifteen members appointed for a one year term of office with one vote per person and a quorum for voting purposes being a simple majority.

Adoption Date:

R E S O L U T I O N N O. _____

A RESOLUTION AUTHORIZING THE FORMATION OF A SOLID WASTE COMMISSION

WHEREAS the Metropolitan Service District recognizes that advisory citizen participation and input is necessary and desirable; and

WHEREAS the present committee structure of a Citizens Advisory Committee and Technical Advisory Committee would be increased by parallel committees in other areas of concern; and

WHEREAS the scheduling of additional advisory committee meetings prior to MSD Board meetings would be arduous; and

WHEREAS solid waste is presently a concern of MSD it is logical to restructure advisory committee roles at the present time; and

WHEREAS a commission form of advisory participation would be more effective than the two committee structure for each area of concern of the District;

THEREFORE BE IT RESOLVED that the MSD Board of Directors does create and approve a Solid Waste Commission to supercede the present Citizen Advisory Committee and Technical Advisory Committee which will be composed of citizens and technical experts

who will advise the MSD Board of Directors on all matters pertaining to solid waste disposal. Further, this commission will have eleven to fifteen members, appointed for a one year term of office with one vote per person and a quorum for voting purposes being a simple majority.

Adoption Date

Robert Schumacher, Chairman
Metropolitan Service District