

**METRO REGIONAL PARKS AND GREENSPACES
ADVISORY COMMITTEE (RPAGAC)
MEETING NOTICE**

Date: Tuesday, March 3, 1998
Time: 6:00PM - 7:30PM
Place: Metro Regional Center, 600 NE Grand Ave, Portland
Room 270

AGENDA

- I. Introductory comments and announcements (5 minutes)
- II. Title 3 Update: what's next for the Stream and Floodplain Protection Plan?
(Jennifer Budhabhatti) (20 min) **Committee action recommendation**
- III. Parks and Greenspaces Volunteer Services (Deb Scrivens) (30 minutes)
- IV. *Metro GreenScene* proposal to move to *Willamette Week* (Ron Klein) (5 minutes)
Committee action recommendation
- V. Last call for committee member nominations (Ron Klein) (5 minutes)

Mike Reid provided testimony to Metro Council on behalf of the Regional Parks and Greenspaces Advisory Committee on March 26. Jennifer Budhabhatti will discuss the public hearing highlights, future involvement opportunities and the remaining Title 3 process.

Deb Scrivens, Metro Park's education program coordinator, will provide an overview of volunteer accomplishments in environmental education, particularly the Volunteer Naturalist Program. The department FY98-99 budget requests funding for a Volunteer Coordinator. This position would be able to expand citizen involvement in stewardship and program activities.

Ron Klein will cover the details of a potential partnership with *Willamette Week* that may result in future editions of *Metro GreenScene* being published in the newspaper.

Next RPAGAC meeting will be on April 7, 1998, Metro Regional Center, Room 270.



METRO

DATE: February 26, 1998

TO: James F. Jacks, Planning Director, City Of
Tualatin

MTAC Committee members

WRPAC Committee members

FROM: Jennifer Budhabhatti, Associate Regional
Planner, Parks and Greenspaces
Department

RF
Rosemary Furfey, Senior Regional Planner,
Growth Management Department

RE: Scientific Analyses and Discussion of Title
3 Vegetated Corridor Widths

CC: Elaine Wilkerson, Director, Growth
Management Department

Charles Ciecko, Director, Parks and Greenspaces Department

This memo is in response to questions and concerns raised by you in your letters dated 2/2/1998 and 2/18/1998. We understand your interest in substantiating the scientific findings for Title 3, as described in the Policy Analyses and Scientific Literature Review, the "White Paper". We appreciate your efforts at understanding the contents of this paper. Our response is detailed below and listed under the following headings:

I. VEGETATED CORRIDOR WIDTHS

The justifications for the vegetated corridor widths are based on a combination of the following:

a) Best available scientific data

- Approximately 28 papers were referenced for information on vegetated corridor widths.
- Noted researchers in water quality and state and federal scientists were contacted for state-of-the art papers on vegetated corridor widths.
- A computer internet search was conducted to gather recent data on vegetated corridor widths.

b) Peer review comments

- Ten peer reviewers were chosen to objectively evaluate the technical contents and conclusions of the white paper, based on their scientific research knowledge, publications on vegetated corridors and its impact on water quality, practical experience in the field of water quality, and familiarity with water quality issues in the Pacific Northwest. Two reviewers, in particular, Andy Castelle with Adolfson Associates in Seattle, Washington, and Dr. Klaus Richter with King County Washington, have extensively published papers on water quality, and have worked with public agencies in drafting performance standards for water quality.

Some of their comments that address the scientific review and accuracy of the paper are highlighted below.

Andy Castelle, Director of Natural Sciences, Adolfson Associates (dated May 14, 1997):

"Overall, this is an excellent paper; I am familiar with much of the scientific literature that you have referenced in the white paper. Your summaries of this information are quite accurate. As I mentioned earlier, the level of technical detail presented also appears appropriate for the intended audience. The accuracy of this paper should be readily defensible".

Klaus Richter, Ph.D. Senior Ecologist, King County, Department Of Natural Resources (dated May 2, 1997):

"This paper is complete, accurate and does not appear to have any omissions of significance. It is a carefully thought out, thorough, and well prepared paper and consequently should significantly add to the background information of Metro's "Urban Growth Management Functional Plan". It is rewarding to see management suggestions based on the best available science information"

Fred Wright, United Sewage Agency of Washington County (dated April 30, 1997)

"My highest compliments to those involved with gathering and formatting the draft material. An outstanding educational resource, that compliments and supports educational outreach".

The justification for the vegetated corridor widths are therefore based on a combination of the above listed factors. Thus, we are confident that the scientific literature review is technically sound and defensible.

II. SCIENTIFIC JUSTIFICATION

a) Scientific Literature

The white paper was based on the best possible research available in the northwest and elsewhere on water quality. We acknowledge that a majority of the papers were cited from agriculture and forestry research. However, though the situations are different, the processes are the same. All activities in agriculture, forestry and urban areas result in water quality degradation. They all can produce sediments, pesticides, nutrients and stormwater run-off. However, urban -runoff exceeds the pollutants present in agriculture and forestry for some substances such as heavy metals, and automobile exhaust and oil residues from trucks and cars.

One of our peer reviewers - Andy Castelle from Adolfsen Associates noted in his letter (dated 15 May, 1997):

"Some may question the applicability of some of the research- such as those conducted in agricultural or silvicultural areas- in urban areas. While the buffer processes may be the same in all instances, the pollutant loadings may be quite different. For example, one would expect higher concentration of nitrogen in runoffs from feedlots than from residential lawns. This may indicate that larger buffers would be necessary in agricultural areas than in residential zones. However, urban loadings of some pollutants -such as heavy metals- would suggest that broader buffers are necessary in urban areas".

Thus, vegetated corridor widths used to filter pollutants from agriculture and forestry processes are applicable to urban situations. We cannot afford to ignore the importance of vegetated corridors in urban areas because there is no site specific research available. Lack of data and information in urban areas should result in a conservative approach to protecting water quality. Once we have lost our ability to protect water quality and quantity through the function and values of the natural system that exist (i.e. vegetated corridor), it is very difficult and expensive to replace them. We will never have site specific data for individual locations and have to rely on research to guide our implementation.

b) Justification For 200-foot Vegetated Corridor

The most comprehensive review of existing literature related to the justification of vegetated corridor widths is in Johnson and Ryba's 1992 paper entitled: "A Literature Review Of Recommended Buffer Widths To Maintain Various Functions Of Stream Riparian Corridors". Figure 5 (see attachment A) from the white paper shows that a

the white paper as cited in Johnson and Ryba 1992 lists Gilliam's (1988) reference to 289 ft required for 50 percent reduction in sediment .

You have requested several additional citations listed in the white paper and they are as follows:

Gilliam, J.W., and R.W. Skaggs. 1988. Natural Buffer Areas and Drainage Control to Remove Pollutants from Agricultural Drainage Waters. pp. 145-148. In J.A. Kusler, M. Quammen, and G. Brooks (eds.) ASWM Technical Report 3; Proceedings of the National Wetland Symposium: Mitigation of Impacts and Losses. US Fish and Wildlife Serv., US EPA, and U.S. Army Corp of Engineers.

Mauermann, S. 1989. Draft Local Wetland Protection Regulations Puget Sound Guidelines. Wash. State Department of Ecology. Olympia, Wash.

Broderson's (1973) thesis "Sizing Buffer Strips To Maintain Water Quality" recommends 200 foot buffers to protect steep slopes in the Pacific north-west forested areas. In summary, Broderson discusses the vulnerability of steep slopes, where timber harvesting results in massive slope failures. This was attributed to the loss of soil support provided by vegetation.

These slope failures are very evident in urban areas as seen in a number of "sliding properties" in Seattle, Portland and now near the coastal areas of Oregon. One of the causes of slope failures (which results in downstream sedimentation of streams) is lack of tree root support for maintaining the cohesive properties of soil. In urban areas, steep slopes are denuded of trees and replaced by urban dwellings and paved parking, these urban structures cannot maintain the structure and cohesiveness of the soil and this often results in slope failures. Thus 200- foot vegetated corridors helps in preventing slope failures, filtering sediments from water flowing from adjacent properties, and avoiding damage to human lives and property.

Your (letter dated 2/2) analysis of Broderson's paper is different from our interpretation of his work. The difference in opinion could be attributed to different professional judgments based on training and experience. Our conclusions are based on a combination of other cited literature, i.e., Johnson and Ryba's paper, Broderson's paper, peer review comments and professional judgment and experience.

111 LOCAL FLEXIBILITY IN 200-FOOT PERFORMANCE STANDARDS

We recognize and encourage the need for local flexibility to implement Title 3's vegetated corridors. A joint WRPAC and MTAC committee discussed ways to provide flexibility to allow development within the 50- to 200-foot vegetated corridor in Title 3 performance standards. The revised performance standards dated 12/97 specifically address the issues you have raised. Some of the compliance criteria are listed below:

- Line 114 - If the protected water feature is confined by a gully or ravine (>25 % slope) then the top of ravine is the first break in slope and width of vegetated corridor

at the top of ravine could be reduced from 50 to 25 foot with a geotechnical report showing bank stability. This total corridor width from top of stream bank to development could be less than 200 foot, but not more than 200 foot. This method is currently being used by several jurisdictions.

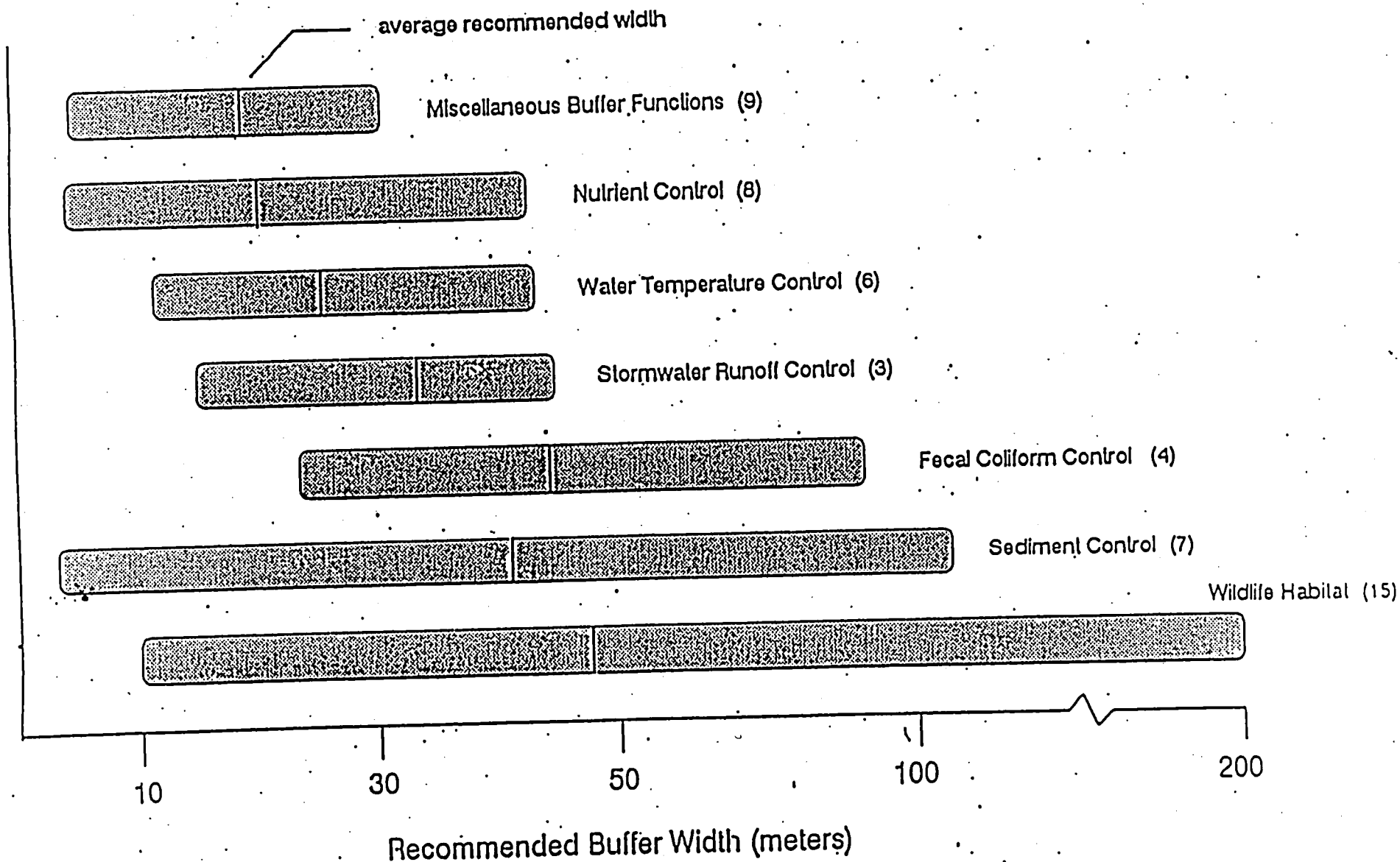
- Line 145- Allows encroachment and require mitigation to ensure that functions and values of the Water Quality Resource areas are restored.
- Line 149- Lots or parcels which are fully or predominantly in the Water Quality Resource Areas are exempted from Title 3 restriction to a certain degree.
- Line 168- Land use regulations can authorize transfer of permitted units from land inside the Water Quality Resource Areas to land outside the Water Quality Resource Areas (transfer of density).
- Line 189- Repairs, alterations and maintenance are allowed to existing structures in the Water Quality Resource Areas provided they do not encroach closed to the Protected Water Feature.

MEASUREMENT OF SLOPE

A technical handout is being developed for MTAC on measuring slope. The handout will address all your issues (dated 2/18) on how to measure slope and its implications for buffer widths.

ATTACHMENT A

Figure 1. Range of buffer widths recommended by various investigators to maintain selected functions of riparian areas. See text for discussion and references. (x) indicates number of studies on which average and range are based.



WPS Memorandum

TO: Columbia Corridor Association & Metro
Cities/Counties that have prescribed stream
corridor setbacks
FROM: Greg Winterowd
SUBJECT: Proposed Changes to Title 3 Prescriptive (versus
Performance) Standards
DATE: February 25, 1998

This memorandum expands upon the City of Tualatin's proposed amendment 5 (lines 122-3) which reads:

These lines should be amended to recognize the work of cities and counties that is now part of their comprehensive land use plans and acknowledged as complying with the Statewide Goals.

Rather than amending lines 122-3, however, we recommend the following amendment Insert above lines 102-2, which relates to the Water Quality Resource Area / Vegetated Corridor table.

2. *Cities and counties that have acknowledged Goal 5 or 6 programs that are expressly designed to minimize development impacts on water quality and flood storage capacity may rely on locally-adopted vegetated corridors for protected water features, rather than the vegetated corridors prescribed in Section 4, below, provided that such plans and implementing regulations:*
- a. have been acknowledged by the Land Conservation and Development Commission as complying with Goal 5 and/or Goal 6;*
 - b. are based upon approved Local Wetlands Inventories (LWIs) or comprehensively mapped streams corridor systems (at 1":400' or larger), including associated wetlands and vegetated corridors;*
 - c. expressly consider and protect water quality and flood storage functions and values of protected water features and vegetated corridors;*
 - d. include additional measures designed to maintain or improve water quality, such as constructed water quality facilities, best management practices, erosion control measures and/or vegetated corridor enhancement programs, where the vegetated corridor is less than prescribed in subsection 3, below;*

WPS Memorandum
February 25, 1998

Page 2

- e. identify and map the location and area of the protected (significant) water features and vegetated corridors at 1":400' or larger;*
 - f. establish specific setbacks from the top of the stream bank or the edge of the wetlands, which appear on adopted overlay maps scaled at 1":400' or larger;*
 - 3. Metro recognizes the following cities and counties as having acknowledged Goal 5 or 6 programs that meet the above standard for protected stream corridors and associated wetlands:**
 - a. North Urban Clackamas County (Goal 5, Chapter 660, Division 16 ESEE Analysis);*
 - b. Troutdale (Goals 6 and 7, Beaver and Arata Creeks);*
 - c. Lake Oswego Urban Planning Area (Goal 5, Chapter 660, Division 16 ESEE Analysis);*
 - d. Tigard Urban Planning Area (Goal 5, Chapter 660, Division 23 - Safe Harbor);*
 - e. Tualatin Urban Planning Area (Goal 5, Chapter 660, Division 23 - ESEE Analysis and Safe Harbor);*
 - f. City of Portland (Goal 5, Chapter 660, Division 16 ESEE Analysis);*
 - g. Multnomah County (West Hills only, Goal 5, Chapter 660, Division 16 ESEE Analysis).*
 - 4. All other cities and counties must comply with the prescriptive standards described in the table below.**
- [INCLUDE TABLE IN EXISTING SUBSECTION 2.a. HERE]**
- 5. All development in Water Quality Resource Areas shall conform to the following performance standards.**

[EXCLUDE PRESCRIPTIVE TABLE, INCLUDE REMAINDER OF PERFORMANCE STANDARDS IN SUBSECTION 2.b.-2.f.]

METRO POLICY ADVISORY COMMITTEE**Members and Alternates by Position****March 1998**

Position	Member	Alternate
1 - Multnomah Co. Commission	Commissioner Gary Hansen Multnomah County 1120 SW 5th Ave., #1500 Portland, OR 97204 P: 248-5219 F: 248-5440 Gary.D.Hansen@co.multnomah.or.us Appointed: 01/16/98 Term Expires: 01/16/2000	Commissioner Beverly Stein Multnomah County 1120 SW 5th Ave., #1515 Portland, OR 97204 P: 248-3308 F: 248-3093 mult.chair@co.multnomah.or.us Appointed: 01/16/98 Term Expires: 01/16/2000
2 - Multnomah Co. 2nd Largest City (Gresham)	Mayor Gussie McRobert City of Gresham 1333 NW Eastman Parkway Gresham, OR 97030-3813 P: 618-2306 F: 665-7692 mcrobert@ci.gresham.or.us Appointed: 01/09/95 (prior 01/19/93) Term Expires: 01/09/97	Royal Harshman Councilor, City of Gresham 2837 NE Evelyn Street Gresham, OR 97030 P: 669-2584 F: Appointed: 01/03/95 Term Expires: 01/03/97
3 - Multnomah Co. Other Cities	Councilor David Ripma City of Troutdale 4220 S. Troutdale Road Troutdale, OR 97060-9404 P: 252-5436 x8754 F: (360) 626-9003/(360) 834-8611 Appointed: 10/13/95 Term Expires: 10/13/97	Vacant
4 - Multnomah Co. Special Districts	Bud Farm Powell Valley Road Water Dist. 2711 SE 154th Avenue Portland, OR 97236 P: 761-8632 F: 760-1622 Appointed: 06/24/93 Term Expires: 06/24/95	Vacant
5 - City of Portland Council	Commissioner Charlie Hales City of Portland 1220 SW 5th Avenue, Room 404 Portland, OR 97204 P: 823-4682 F: 823-4040 Appointed: 02/02/93 Term Expires: 02/02/95	Commissioner Gretchen Kafoury City of Portland 1220 SW 5th Avenue, Room 211 Portland, OR 97204 P: 823-4151 F: 823-3036 Appointed: 12/19/97 Term Expires: 12/19/99

Position	Member	Alternate
6 - City of Portland Council	Commissioner Jim Francesconi City of Portland 1220 SW Fifth Ave., Room 414 Portland, OR 97204 P: 823-3008 F: 823-3017 Appointed: 01/01/96 Term Expires: 01/01/98	Commissioner Gretchen Kafoury City of Portland 1220 SW 5th Avenue, Room 211 Portland, OR 97204 P: 823-4151 F: 823-3036 Appointed: 12/19/97 Term Expires: 12/19/99
7 - Clackamas Co. Commission	Commissioner Judie Hammerstad Clackamas County 906 Main Street Oregon City, OR 97045 P: 655-8581 F: 650-8944 judieh@co.clackamas.or.us Appointed: 09/02/93 Term Expires: 09/02/95	Commissioner Bill Kennemer Clackamas County 906 Main Street Oregon City, OR 97045 P: 655-8581 F: 650-8944 bkennemer@co.clackamas.or.us Appointed: 01/23/97 Term Expires: 01/23/99
8 - Clackamas Co. Largest City (Lake Oswego)	Councilor Tom Lowery City of Lake Oswego P.O. Box 369 Lake Oswego, OR 97034 P: 635-0213 F: 697-6594 Appointed: 01/06/98 Term Expires: 01/06/2000	Councilor Bill Atherton City of Lake Oswego PO Box 369 Lake Oswego, OR 97034 P: 223-8363 F: 697-6594 Appointed: 01/06/98 Term Expires: 01/06/2000
9 - Clackamas Co. Other Cities	Mayor Jill Thorn City of West Linn P.O. Box 48 West Linn, OR 97068 P: 635-9307 F: 635-2537 Appointed: 09/22/95 Term Expires: 09/22/97	Vacant
10 - Clackamas Co. Special Districts	Chuck Petersen Oak Lodge Sanitary District 15430 SE Dana Avenue Milwaukie, OR 97267-3546 P: 654-9698 F: 654-9698 (call first) Appointed: 04/13/93 Term Expires: 04/13/95	John Hartsock Boring Fire District #59 12042 SE Sunnyside #561 Clackamas, OR 97015 P: 780-4806 F: 658-3395 Appointed: 12/10/96 Term Expires: 12/10/98
11 - Washington Co. Commission	Commissioner Kathy Christy Washington County 155 N. First Avenue, #300 Hillsboro, OR 97124 P: 648-8681 F: 693-4545 kathy_christy@co.washington.or.us Appointed: 03/03/98 Term Expires: 03/03/2000	Commissioner Linda Peters Washington County 155 N. First Avenue, #300 Hillsboro, OR 97124 P: 648-8681 F: 648-8681 linda_peters@co.washington.or.us Appointed: 03/03/98 Term Expires: 03/03/2000

Position	Member	Alternate
12 - Washington Co. Largest City	Mayor Rob Drake City of Beaverton PO Box 4755 Beaverton, OR 97076 P: 526-2481 F: 526-2571 Appointed: 02/13/93 Term Expires: 02/13/95	Councilor Evelyn Brzezinski City of Beaverton PO Box 7455 Beaverton, OR 97026 P: 526-2347 F: 526-2479 Appointed: 02/15/95 Term Expires: 02/15/97
13 - Washington Co. Other Cities	Mayor Lou Ogden Tualatin 21040 SW 90th Avenue Tualatin, OR 97062 P: 692-0163 F: 692-0163 Appointed: 12/23/96 Term Expires: 12/23/98	Councilor Richard Kidd City of Forest Grove 2405 Pacific Avenue Forest Grove, OR 97116 P: 359-5851 F: 359-5081 Appointed: 01/13/97 Term Expires: 01/13/99
14 - Washington Co. Special Districts	Robert Mitchell Tualatin Valley Water District 19700 SW Walquin Court Aloha, OR 97007 P: 682-4723 F: 682-2343 Appointed: 10/02/95 Term Expires: 10/02/97	Carol Gearin Washington County Special Districts/TVFR 2420 NW 119th Avenue Portland, OR 97229 P: 643-4311 F: 641-4427 Appointed: 10/02/95 Term Expires: 10/02/97
15 - Tri-Met Board of Directors	Robert E. Stacey, Jr. Executive Director, Policy & Planning, Tri-Met 4012 SE 17th Avenue Portland, OR 97202 P: 239-6411 F: 239-6451 Appointed: 02/25/98 Expires: 02/25/2000	Philip R. Bogue Tri-Met Board of Directors 11519 SW Breyman Avenue Portland, OR 97219-8405 P: 238-5824 F: 636-8732 Appointed: 02/25/98 Term Expires: 02/25/2000
16 - Citizen - Washington County	Peggy Lynch PO Box 1757 Beaverton, OR 97075-1757 P: 646-4580 F: 646-6286 Appointed: 03/16/95 Term Expires: 03/16/97	Rebecca Read College of Urban & Public Affairs Portland State University P.O. Box 751 Portland, OR 97207-0751 P: 725-5143 F: 725-5199 readr@pdx.edu Appointed: 09/25/97 Term Expires: 09/25/99
17 - Citizen - Clackamas County	Scott Leeding Ken Hoffman, Inc. 9123 SE St. Helens St., Ste 100 Clackamas, OR 97015 P: 655-1711 F: 655-2216 Appointed: 09/25/97 Term Expires: 09/25/99	Demi DeSoto N. Clackamas Co. Chamber 7740 SE Harmony Road Milwaukie, OR 97222-1269 P: 654-7777 F: 653-9515 Appointed: 02/12/96 Term Expires: 02/12/98

Position	Member	Alternate
18 - Citizen - Multnomah County	Jim Zehren, Esq. Stoel Rives LLP 900 SW 5th Avenue, #2300 Portland, OR 97204 P: 294-9616 F: 220-2480 Appointed: Term Expires:	Vacant
19 - State Agency Growth Council	Richard Benner DLCD 1175 Court Street NE Salem, OR 97310 P: 373-0060 F: 362-6705 Appointed: Term Expires: Until removed.	Jim Sitzman DLCD 800 NE Oregon St., #18 Portland, OR 97232 P: 731-4065 F: 731-4068 Appointed: Term Expires: Until removed.
20 - Clark Co. Washington Commission	Commissioner Judie Stanton Clark County PO Box 5000 Vancouver, WA 98668-5000 P: (360) 699-2232 F: (360) 737-6058 Appointed: 03/13/97 Term Expires: 03/13/99	Vacant
21 - City of Vancouver	Rose Besserman Councilor, Vancouver 608 Umatilla Way Vancouver, WA 98661 P: 696-8121 F: 696-8049 Appointed: Term Expires:	Jack Burkman Councilor, Vancouver 210 East Thirteenth Street Vancouver, WA 98668-1995 P: (360) 696-8211 F: (360) 696-8049 Appointed: Term Expires:
22 - Metro Councilor (Liaison Only)	Presiding Officer Jon Kvistad Metro 600 NE Grand Avenue Portland, OR 97232-2736 P: 797-1549 F: 797-1793 kvistadj@metro.dst.or.us Appointed: Term Expires: Until removed	Councilor Patricia McCaig Metro 600 NE Grand Avenue Portland, OR 97232-2736 P: 797-1889 F: 797-1793 mccaigp@metro.dst.or.us Appointed: Term Expires: Until removed
23 - Metro Councilor (Liaison Only)	Councilor Ruth McFarland Metro 600 NE Grand Avenue Portland, OR 97232-2736 P: 797-1547 F: 797-1793 mcfarlandr@metro.dst.or.us Appointed: Term Expires: Until removed	

Position	Member	Alternate
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25 - Governing Body of School District	Chuck Meyer Chair, Beaverton School Board 6580 SW Nehalem Ln. Beaverton, OR 97007 P: (360) 418-8244 F: 651-8764 Appointed: 09/97 Term Expires: 09/99	Rod Monroe David Douglas School Board 7702 SE 111th Ave. Portland, OR 97266 P: 760-4310 F: 261-8208 Appointed: 09/97 Term Expires: 09/99

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