

**MEMORANDUM**

**TO: MWAQC Budget Subcommittee**

**FROM: Joan Rohlf, Chief  
Air Quality Planning**

**DATE: February 6, 2006**

**SUBJECT: Proposed MWAQC Work Program and Budget for FY 2007  
(revised)**

**Work Program Overview**

**MWAQC Regional Air Quality Planning Program Highlights**

MWAQC will finalize the region's 8-hour ozone State Implementation Plan (SIP) in fiscal year 2007 ( June 2006-July 2007) and will begin development of a fine particle plan (PM2.5) for the PM2.5 SIP due in 2008. Much of the attainment planning for the 8-hour ozone standard is complementary to planning for the PM2.5 SIP. Fortunately, there is considerable overlap in the work needed for preparation of the ozone and particle plans. In particular, a number of tasks can be integrated for both ozone and PM because several key emission inventory and control measure tasks are similar for both pollutants. Note, however, that while there is commonality in the technical work leading up to plan preparation, two separate SIPs will be prepared as required in the Clean Air Act.

The proposed schedule for the 8-hour ozone SIP will be to submit a draft SIP to MWAQC for approval in the summer of 2006, hold public hearings, respond to comments, revise the SIP and submit to MWAQC for approval by November –December 2006. Staff will prepare, print and distribute background brochures for the public hearing and comment process.

During this time, PM2.5 planning will include preparation of future year inventories, analysis of reductions needed, and coordination of attainment modeling and weight of evidence. EPA has not yet released final implementation guidance for the PM2.5 standard, so there may be modifications to the work schedule once the guidance is released in 2006.

**Transportation Conformity**

MWAQC will review and comment on the conformity analyses for 8-hour ozone and PM2.5 Transportation Planning Board's FY2007 Transportation Improvement Program (TIP) and 2006 Constrained Long Range Plan (CLRP). MWAQC staff will provide mobile inputs to the conformity analysis and will work with MWAQC's Technical Advisory Committee and Conformity Subcommittee to review results of modeling.

State air agencies are researching the constituents and sources of PM2.5 pollution in the Washington region. As research results become known, the state air agencies and/or EPA may require conformity analysis to be performed for additional pollutants, including volatile organic compounds (VOC), sulfur dioxide (SO<sub>2</sub>) and ammonia. Staff will work with Dept. of

Transportation Planning staff to provide the necessary inputs if and when states indicate that additional pollutants need to be analyzed for conformity.

### **Interstate Air Quality Council (IAQC)**

The Interstate Air Quality Council (IAQC) may request staff to perform tasks at its discretion. In this event, additional funding may be required to complete tasks as requested by the IAQC.

The 2007 work program will include the following eight core tasks:

#### **1. State Implementation Planning**

Staff will coordinate the final stages of the 8-hour ozone SIP so that it may be presented for consideration and approval by MWAQC by the end of 2006 and the state air agencies will have additional time to submit the SIP to EPA by the June 2007 deadline. Concurrently, staff will be coordinating development of a fine particle plan which will be an early draft of the PM<sub>2.5</sub> SIP due in 2008. Specific tasks for each SIP are described below. Staff will brief Technical Advisory Committee (TAC) and MWAQC about EPA's new guidelines, rules and regulations as necessary.

- **8-Hour Ozone Standard:**

MWAQC staff will prepare a draft and final State Implementation Plan for the 8-hour ozone standard. The plan will include a Reasonable Further Progress (RFP), Reasonable Available Control Measure (RACM) analysis, a control measure strategy, attainment demonstration and weight of evidence. The control strategy will depend upon timely development and adoption of model rules on a region-wide basis, coordinated with the Ozone Transport Commission (OTC). The proposed work schedule assumes that the OTC will adopt model rules in June 2006 and that the states will proceed to adopt these in a schedule consistent with attaining the 8-hour ozone standard by May 2009.

- **Fine Particle Standard (PM<sub>2.5</sub>)**

Planning for the fine particle standard will include development of a base case and future year (2009) inventory, controlled and uncontrolled; evaluation and prioritization of control measures; and coordination of attainment modeling and weight of evidence. The EPA implementation guidance issued in 2006 could impose a requirement for preparing a Reasonable Further Progress analysis and plan.

#### **2. Emissions Inventory Development**

Base case and future year (2009) inventories will be needed for the PM<sub>2.5</sub> plan. These inventories will be developed from existing MANE-VU and VISTAS inventories to be consistent with attainment modeling being done by the two Regional Planning Organizations. If EPA's guidance to be released in 2006 requires the Washington region to prepare a Reasonable Further Progress plan, additional inventories for that analysis will be needed.

#### **3. Attainment Modeling Coordination**

The Clean Air Act requires nonattainment areas to submit photochemical modeling to demonstrate that the area will meet the National Ambient Air Quality Standard under worst case scenarios. In addition to photochemical modeling, additional evidence based on an

analysis of monitored air quality trends will be included as part of the attainment demonstration for both ozone and fine particles. Modeling for both standards, 8-hour ozone and fine particles, is being conducted by Regional Planning Organizations such as the Ozone Transport Commission (OTC) and the Visibility Improvement State and Tribal Association of the Southeast (VISTAS) on a scale that includes the Northeast and Mid-Atlantic states as well as the Mid-West. Modeling for the Washington-Baltimore domain is being done in parallel with the larger effort.

MWAQC staff will convene periodic meetings of the Attainment Subcommittee, consisting of state air agency modelers, to review and discuss the photochemical modeling for the Washington nonattainment region. Staff will participate in and track larger scale modeling efforts supported by the Ozone Transport Commission (OTC). Staff will present significant policy issues involving the use of models for the Baltimore-Washington domain to TAC and MWAQC.

#### **4. Local Measures**

MWAQC staff will provide technical expertise, in cooperation with the states, to assist local governments in the development of strategies and programs to reduce emissions, and to provide a mechanism for calculating and reporting evidence of actions taken. SIP tasks will include coordination and documentation of voluntary measures and technical support for lead agencies developing innovative voluntary measures. Staff will help with the measurement and evaluation of local measures to be included as voluntary measures in the State Implementation Plans.

#### **5. Transportation Conformity/Mobile Emission Analysis**

MWAQC staff will perform several tasks as part of the transportation/air quality conformity process. Transportation Planning Board (TPB) will propose FY2007-2012 TIP and 2006 CLRP in the summer/fall of 2006. Staff and the Conformity Subcommittee will review proposed transportation projects, amendments to the Transportation Improvement Plan, and review and participate in the air quality conformity analysis. Staff will provide regular briefings for the Transportation Planning Board (TPB) and TPB Technical Committee about EPA regulations and guidance as they apply to conformity in the Washington region. Staff will coordinate planning the air quality SIP schedule and the TPB TIP conformity schedule.

#### **6. Public Participation**

Staff will support the Air Quality Public Advisory Committee (AQPAC), an advisory committee to MWAQC, by attending meetings, providing administrative support, and briefing the committee on EPA regulations, air quality progress, air quality planning issues, and proposed actions of MWAQC. AQPAC will meet approximately ten times in 2006-7.

#### **7. MWAQC Support**

MWAQC will hold six regular business meetings and 3-4 work sessions during the year. The Technical Advisory Committee will meet monthly, with the exception of August, and the TAC subcommittees will continue to meet on an as needed basis. The MWAQC Executive Committee will continue to hold monthly conference calls.

### **8. Project Management**

Staff will prepare a draft work program and budget for the fiscal year 2008, and will work with the MWAQC Budget Subcommittee and MWAQC to get an approved budget in the spring before the fiscal year begins. During FY 07 staff will provide quarterly financial and status reports to track the progress of implementing the approved work program and budget.

### **Local Government Initiatives**

In addition to the SIP work, there are three local government initiatives included in the work program, to be funded by COG member contributions included in COG's FY2007 work program and budget. These tasks have been developed in response to the local government members of MWAQC. They include MWAQC work sessions on components of the SIP, additional technical support for local government voluntary measures, and an Air Quality Outreach program directed at providing better air quality information to the media.

### **Survey of Non-Road Transportation Construction Equipment**

In addition a survey of non-road transportation construction equipment will be conducted. The purpose of the survey is to identify heavy duty retrofit candidates eligible for use of FHWA congestion Mitigation and Air Quality (CMAQ) funds. Such retrofit projects are now qualified for CMAQ funding under SAFTEA-LU, the new federal transportation act.

### **Budgeting for the FY 07 Program**

The FY2007 work program maintains the MWAQC staff and its ability to conduct the tasks described above for SIP planning. The proposed budget for the core MWAQC work program is \$455,400. In addition, a budget for Local Government Initiatives, funded by COG local members, is \$82,700. A new project, a survey of off-road diesel emissions, will be funded by TPB and COG at \$75,000. The total funding proposed for FY2007 budget is \$613,101. The proposed budget for the core MWAQC program is generally unchanged, except that it is \$5,000 less due to an anticipated lack of carryover funding. Funding for the Local Government Initiatives program is \$67,700 more than FY 2006, due to the survey of non-road equipment survey project.

Note that the proposed funding from the Transportation Planning Board ((TPB) to support air quality planning and conformity is contingent upon TPB's approval of the Unified Planning Work Program (UPWP) for FY 2007, which is scheduled for March 15, 2006.

The following two tables present the proposed budget and funding contributions:

Table 1: Proposed FY 2007 Air Quality Work Program Tasks

Table 2: Proposed MWAQC Funding Contributions by Source FY 2007

**Table 1**  
**Proposed FY2007 Air Quality Work Program Tasks**  
**( Breakdown of Costs by Type)**

Work Program Tasks	COG staff (\$)	Consultants(\$)	Direct\$	Total Cost (\$)
1. SIP Development	99,334		4,400	\$103,734
2. Emissions Inventory Development	29,665		1,305	\$30,970
3. Attainment Modeling Coordination	24,087	0	650	\$24,737
4. Local Measures	9,058		950	\$10,008
5. Transportation Conformity/Mobile Emissions Analysis	103,607	0	4,642	\$108,249
6. Public Participation	40,149	0	3,200	\$43,349
7. MWAQC, TAC and Exec. Cttee Support	73,743	0	14,452	\$88,195
8. Project Management	45,159	0	1,000	\$46,159
<b>TOTAL</b>	<b>\$424,802</b>		<b>\$30,599</b>	<b>\$455,401</b>
<b>Local Govt. Initiatives Budget</b>				
MWAQC Work Sessions	13,549		3,465	\$17,014
Local Measures Support	15,487		1,243	\$16,730
AQ Reporting and Outreach	18,205	30,000	752	\$48,957
Non-Road Equip. Survey	23,959	50,000	1,041	\$75,000
<b>SUBTOTAL, Local Govt. Initiatives</b>	<b>\$71,199</b>	<b>80,000</b>	<b>\$6,501</b>	<b>\$157,700</b>

**Table 2**  
**Proposed MWAQC Funding Contributions by Source FY 07**

<b>Source</b>	<b>Approved FY06</b>	<b>Requested FY07</b>	<b>Change</b>
<b>COG</b>	\$151,800	\$151,800	
State DOT/TPB	\$151,800	\$151,800	
State Air Agencies			
D.C.DOH	17,688	17,998	+\$310
MDE	68,953	69,675	+\$722
VDEQ	65,159	64,128	-\$1,031
States. Subtotal	\$151,800	\$151,800	
<b>TOTAL</b>	<b>\$460,400</b>	<b>\$455,400</b>	<b>-\$5,000</b>
<b>Local Govt. Initiatives</b>			
COG local funds	\$77,100	\$82,700	+\$5,600
FY04 Carryover	12,900		-\$12,900
COG /TPB		\$75,000	+\$75,000
<b>SUBTOTAL Local Govt. Initiatives</b>	<b>\$90,000</b>	<b>\$157,700</b>	<b>\$67,700</b>