METROPOLITAN WASHINGTON AIR QUALITY COMMITTEE
777 North Capitol Street, N.E.
Washington, D.C. 20002

Air Quality Planning
Work Program and Budget

July 1, 2011 through June 30, 2012

Prepared by

Metropolitan Washington Council of Governments
Department of Environmental Programs
Air Quality Section

I. Background

This document presents the work program for the Metropolitan Washington Air Quality Committee (MWAQC) to be carried out between July 1, 2010 and June 30, 2011. It describes the work to be carried out by the staff of the Metropolitan Washington Council of Governments (COG) that is directly funded in this work program, as well as the in-kind contributions of the state air quality management agencies from the District of Columbia, Maryland, and Virginia. The tasks outlined in this work program are designed to ensure a regional approach to meeting the federal health standards for ground-level ozone and fine particles in the Washington metropolitan region. Through the activities described for the coming year, several important steps will be taken towards improving the air quality of the region while simultaneously helping meet transportation needs in the Washington region consistent with air quality goals.

Certification of the Metropolitan Washington Air Quality Committee

The authority of MWAQC is derived from the certifications made by the Governors of Maryland and Virginia and the Mayor of the District of Columbia pursuant to Title I, "Provisions for Attainment and Maintenance of National Ambient Air Quality Standards," of the Clean Air Act Amendments of 1990 (section 174, 42 U.S. Code 7504).

Mission of Metropolitan Washington Air Quality Committee

The primary responsibilities of MWAQC are development of regional plans for meeting the federal health standards for the criteria pollutants for which the Washington, DC-MD-VA region has been designated nonattainment. The air quality plans developed by MWAQC are submitted to the States for incorporation in the State Implementation Plan for submittal to EPA.

Air Quality Classifications of the Washington Metropolitan Region

Ozone Standard[1]:
EPA designated the metropolitan Washington region as moderate nonattainment for the 8-hour ozone standard in January 2004. The state implementation plan ("SIP") adopting all the requirements for moderate nonattainment areas was submitted in June 2007. The region has a deadline of June 15, 2010, to meet the 8-hour ozone standard.[2] The geographic scope of the region includes the Metropolitan Washington Region defined as follows: Montgomery, Prince George's, Frederick, Charles, Calvert Counties in Maryland; Fairfax County, Arlington County, City of Alexandria, City of Falls Church, City of Fairfax, Prince William County, Loudoun County, City of Manassas in Virginia; and the District of Columbia.

[1] One-Hour Ozone Standard: The Washington region's air quality met the one-hour ozone standard by the region's deadline of November 2005, although EPA revoked the standard earlier in the year and, therefore, no longer made findings of attainment for the one hour ozone standard. In July 2008 EPA published a notice in that the Washington region attained the one-hour ozone standard by its deadline of November 2005.

[2] Federal Register, Vol.69, no. 84, April 30, 2004, 23951-24000.

In 2009 EPA approved the Reasonable Further Progress portion of the region's 2007 ozone state implementation plan. The approval established a 2008 Motor Vehicle Emissions budget for use in transportation conformity analysis.[3]

In March 2008 EPA promulgated a new ozone standard of 75 ppb based on new evidence that ozone at lower levels has serious health effects. The states in the Metropolitan Washington region recommended to EPA that the region be designated in nonattainment for the new standard based on monitor data.[4] In 2009 EPA announced it would reconsider the 2008 ozone standard. In January 2010 EPA proposed to lower the ozone standard to the range of 60-70 ppb. [5] EPA postponed announcement of the revised ozone standard until July 2011.

$PM_{2.5}$ Standard ("Fine Particle") : EPA designated the metropolitan Washington region as nonattainment for the 1997 fine particulate standard, $PM_{2.5}$, in January 2005. The state implementation plan adopting all requirements for the fine particulate standard was submitted in 2008.[6] The geographic scope of the Washington region PM fine nonattainment area is the same as for the 8-hour ozone standard, with the exception of Calvert County, Maryland. In December 2008 EPA announced that the monitors in the Washington region showed compliance ("Clean Data") with the 1997 annual $PM_{2.5}$ standard.[7] The region is in compliance with the new 2008 daily fine particle standard, so will not be required to do attainment planning for the daily standard. EPA plans to propose a new $PM_{2.5}$ standard in the spring 2011.

Carbon Monoxide: The Washington region met the carbon monoxide standard in 1995. In 2004 a maintenance plan submitted to EPA demonstrated the standard will be maintained until 2016.

New Standards Proposed: NO_2 and SO_2

EPA proposed two new standards, nitrogen dioxide and sulfur dioxide, in 2009 that will require additional monitoring capability. A new lead standard was proposed in 2008. Based on annual data, the Washington region is in compliance with the proposed lead standard.

In December 2009 EPA proposed a one-hour SO_2 standard within the range of 50-100 ppb. The new standard will require modifications to the existing monitoring network, as the current sulfur dioxide standard is an annual standard. The final sulfur dioxide standard is due in early 2010.

EPA's final NO_2 standard was published on January 25, 2010. It establishes a new 1-hour nitrogen dioxide standard at the level of 100 ppb. The current annual average NO_2 of 53 ppb is unchanged. In urban areas, monitors are required near major roads as well as areas where maximum concentrations are expected. EPA will designate areas as attaining, not attaining, or unclassified for the new standard by January 2012 based on the existing community-wide network. Designations will be revised once three years of data from the roadside monitors is available.

[3] Federal Register: September 4, 2009 (Volume 74, Number 171)] [Page 45853]
[4] Federal Register, Vol.73, no. 60, March 27, 2008, 16436-16513
[5] Federal Register, Vol. 75, No.11, January 19, 2010, 2938-3053.
[6] Federal Register, Vol. 70, No. 3, January 5, 2005, 948-1018.
[7] Federal Register, Vol. 74, No. 7, January 12, 2009, 1146-1148.

Membership on MWAQC

Membership on MWAQC consists of representatives from twenty-one member local governments within the non-attainment area, as well as the Directors or their designees from the state air quality management agencies and state transportation agencies, representatives of state legislatures, and the Chair of the National Capital Region Transportation Planning Board (TPB). MWAQC's bylaws allow for the expansion or contraction of MWAQC membership, depending on the geographic scope of the designated nonattainment area. Stafford County, Virginia, participated on MWAQC for the 1-hour ozone standard, but is not part of the 8-hour ozone nonattainment area.

Organizational Structure of MWAQC

MWAQC adopted by-laws which established a position of Chair and three Vice-Chairs, and it has several standing subcommittees or special supporting committees including an Executive Committee, a Technical Advisory Committee, and a Public Advisory Committee. The Technical Advisory Committee has several standing subcommittees: Conformity, Attainment Modeling, Forecasting, Emissions Inventory, and Local Government Initiatives Subcommittee.

Current officers of MWAQC are the Honorable Redella Pepper, Chair (Councilmember, City of Alexandria), Honorable Jay Fisette Vice Chair (Member, Arlington County Board). Phil Mendelson, Vice Chair, (Council of the District of Columbia), the Honorable John Britton, Vice Chair (Council, City of Rockville). Elections of officers were held on December 8, 2010, the last business meeting of the calendar year.

Interstate Air Quality Council

The Interstate Air Quality Council (IAQC) is a cabinet-level collaboration between the District of Columbia, the State of Maryland and the Commonwealth of Virginia, comprised of the secretaries of the environment and transportation. IAQC transmits air quality planning proposals and materials to MWAQC for review and consideration. MWAQC transmits proposed plans and reports to the IAQC for submittal by the Governors and the Mayor to EPA.

Staff Support to MWAQC

The lead role for administrative and technical support to MWAQC is held by the staff of the Metropolitan Washington Council of Governments. Major additional complementary technical staff support is provided by the staffs of the state air quality management agencies. During 1996, MWAQC established a Technical Advisory Committee (TAC) which formally broadened its staff support to include local government technical staff as well as staff representing the state

transportation agencies. In 2011 Technical Advisory Committee is chaired by Diane Franks, Maryland Dept. of Environment (MDE).

II. Summary of MWAQC Accomplishments During FY 2010-11

- ***MWAQC commented to EPA on the 2nd phase of the Renewable Fuels Standard and proposed NO2 NAAQS.***

MWAQC commented on the EPA's phase 2 of a Renewable Fuels Standard. MWAQC sent a comment letter that expressed concern about the air quality impact of increased use of biofuels. MWAQC urged EPA to mitigate potential impacts and adopt appropriate, timely and cost-effective emission controls that can be implemented on a national and regional scale.

MWAQC supported the new hourly NO2 standard as providing more health protection. MWAQC also expressed concern about the required increases in monitoring for the standard, saying, "We urge EPA to provide the resources necessary to state and local air monitoring agencies for establishing the NO_2 monitoring network."

- ***MWAQC Commented on EPA's Proposed Reconsidered Ozone Standard***

MWAQC supported EPA's proposed range for a reconsidered ozone standard, 60-70 parts per billion (ppb) as being more protective of public health. However, MWAQC cautioned that EPA will need to adopt national rules as part of a national strategy to reduce pollution.

- ***MWAQC Commented on Regional Transport Rule***

EPA proposed a Regional Transport rule to resolve issues with the Clean Air Interstate Rule. MWAQC supported the rule, which would require significant reductions in sulfur dioxide and nitrogen oxide emissions that cross state lines by 2014. MWAQC commented that the proposed Transport Rule doesn't establish lower emissions reductions that will be required to meet the new reconsidered ozone standard. MWAQC urged EPA to adopt federal measures to reduce emissions, and supported state emissions budgets with limited interstate trading.

- ***MWAQC Commented on Conformity Analysis for 2010 CLRP and 2011-2016 TIP***

Conformity was tested against the one-hour ozone mobile emissions budgets as wells as the newly approved 8-hour reasonable further progress mobile budgets in the region's SIP. The 2010 CLRP and the 2011-2016 TIP showed current and future mobile emissions lower than the ozone budgets and lower than the 2002 PM2.5 emissions, which is the required test. MWAQC cautioned TPB that a more stringent federal standard for ozone is expected soon, and urged state and local government to maintain their commitments to emission reduction measures. As in past analyses, emissions decline significantly over time, but between 2030 and 2040, emissions begin to increase slightly as the fleet continues to grow. This suggests the need for new control programs to give benefits into the future.

- ***MOVES Task Force Completed Local Inputs to New Mobile Model***

The COG MOVES Task Force was created to prepare for the change to using the new MOVES mobile model instead of MOBILE 6.2. Sensitivity runs were conducted to compare the two models using local data. COG staff performed sensitivity analyses on the new MOVES model using defaults and using local inputs. The Task Force discussed local inputs, posed questions to EPA MOVES developers, and performed a preliminary conformity analysis of the 2010 CLRP and 2011-2016 TIP, to compare to the MOBILE 6.2 conformity analysis.

- ***ACPAC Changes Name to Reflect Expanded Mission***

The Air Quality Public Advisory Committee (AQPAC) changed its name to the Air and Climate Public Advisory Committee (ACPAC) to reflect the committee's mission that includes climate and energy policy as well as air quality issues. In its first year under the new structure, ACPAC commented on several issues to MWAQC. ACPAC supported MWCOG's application to the EPA's Climate Showcase Communities for a regional energy outreach program, and gave commentsComments to MWAQC addressed EPA's proposed NO2 standard. ACPAC commented to the Climate Energy Environment Policy Committee (CEEPC) on the proposed Climate Action Plan for 2012 and on the WE CAN, Wise Energy Use by Capital Area Neighbors outreach campaign, and EPA's Home Energy Score. ACPAC also commented MWAQC on the Transport Rule, the Fairfax County monitor shutdown, and met with MDE staff regarding location of future monitors for the new NO2 and CO standards.

- ***Climate Change and Air Quality Technical Support***

MWAQC staff provided technical support to the Climate Energy Environment Policy Committee, created in 2009 to implement recommendations in COG's Climate Change Report. Staff worked with area utilities on a format for reporting progress on regional climate and energy initiatives. Staff began receiving data from utilities in 2010 for 2009. The data will be used to measure progress on reducing greenhouse gas emissions from the 2005 baseline.

- ***Emissions Inventory***

Staff held calls to discuss developing future year inventories for a potential fine particle redesignation request and maintenance plan. Staff consulted with EPA regarding the future year, 2025 or 2030, for a possible PM2.5 maintenance plan. Staff is developing area source, nonroad and mobile source inventories for the future year.

- ***Local Government Initiatives***

Staff surveyed the local governments regarding their progress on implementing commitments to local non-regulatory programs as part of a bundle of voluntary programs in the regional State Implementation Plan. The Local Government Initiatives Subcommittee, was created in early 2006. MWAQC staff worked with the subcommittee to develop local air quality measures to be included in the SIP.

MWAQC Committees

MWAQC met six times during the fiscal year. Continued operation of the MWAQC regional process throughout the year was possible due to the operation of the Executive Committee and the Technical Advisory Committee (TAC). The Executive Committee discussed issues and guided staff between full MWAQC meetings.

Citizen Support

MWAQC maintains an Air and Climate Public Advisory Committee (AQPAC) in order to provide a conduit through which citizens can be briefed and comment on the actions before MWAQC. The ACPAC continued to provide comments on how regional air quality information could be made more accessible to the public audience.

MWAQC Work Program Objectives, 2011-12

MWAQC and the States will continue to lay the groundwork for the ozone SIP due in 2013, developing a multipollutant strategy for the Washington, DC-MD-VA region. Control measures will be evaluated on their ability to reduce ozone, NOx, VOC, SO_2, fine particles and greenhouse gases. The core work program will also provide technical support for local government air quality initiatives. Coordinating air quality planning with state and local Clean Energy programs will continue to be a focus.

In FY2012 MWAQC Core Program tasks:

- Develop $PM_{2.5}$ Redesignation Request and Maintenance Plan
- Develop $PM_{2.5}$ inventories for Maintenance Plan
- Track attainment modeling for ozone SIP
- Support multi-pollutant, multi-sector control strategy for ozone SIP
- Test MOVES model in transportation conformity for 2011 TIP
- Prepare mobile emissions for PM2.5 Maintenance and ozone SIP
- Track local government Supplemental Measures (Voluntary Bundle) in the Annual $PM_{2.5}$ and Ozone SIPs.
- Develop tracking metrics for regional greenhouse gas emissions (GHG) inventory
- Coordinate air quality planning with state and local Clean Energy Programs
- Review transportation conformity analyses for ozone, fine particles and carbon monoxide
- Possibly revisit mobile budgets in submitted SIPs, depending on application of MOVES to Washington region.

Local Government Initiatives
In addition to the SIP work, there are local government initiatives or "regional measures," included in the work program, to be funded by COG member contributions included in COG's FY2012 work program and budget. These initiatives include providing technical support to the Climate Energy Environment Policy Committee, providing technical support for local government climate change planning, and an air quality and energy efficiency outreach program directed at providing air quality information and explaining COG's climate change initiative to the media and the public. MWAQC staff will seek Diesel Emissions Reduction Act funding for projects in the Metropolitan Washington Region.

Role of COG/MWAQC Staff
The lead role for administrative and technical support to MWAQC is held by COG/MWAQC staff. Close collaborate closely of MWAQC staff with the state air agencies will be necessary to review and revise SIP inventories as needed for ozone and fine particles, potential control measures, and calculation of necessary reductions needed to meet the standards. MWAQC staff will hold monthly calls with the state air agencies to coordinate work tasks and use of resources. As in the past, MWAQC staff will work closely with COG's Department of Transportation Planning staff on mobile emissions inventory and conformity issues.

MWAQC Meeting Frequency
Six MWAQC meetings are proposed during the 12-month period. Meetings will review and discuss policy implications of federal guidance and proposed revisions of National Ambient Air Quality Standards (NAAQS) for ozone, and to take actions such as commenting on guidance, policies and potentially approving SIP revisions as needed for the region and to review designation criteria and regional data for NAAQS.

This document is intended to guide the activities of the MWAQC through the twelve month period from July 1, 2011 to June 30, 2012. In subsequent sections the reader will find detailed descriptions of the eight major work program areas that are included in this proposed work program. The eight major work areas are presented in more detail as tasks in the work program. The core work areas are as follows:

1. SIP/Multipollutant Strategy Development
2. Emissions Inventory Development
3. Local Measures
4. Transportation Conformity
5. Public Participation
6. MWAQC/TAC Support
7. Program Management/Reporting

Costs for each of the above tasks items are also included along with more detailed descriptions in Section IV of this document. Section V presents the Local Government Initiatives program. Section VI presents the proposed funding sources and projected budget for COG staff.

The states and COG staff will meet periodically to discuss the work program status once contracts have been executed. COG will report quarterly on expenses. With the consent of the Chair of MWAQC and/or the Executive Subcommittee, in consultation with the states and concurrence of the funding agencies, specific subtasks may be delayed, new tasks or subtasks added or substituted, or existing tasks or subtasks modified in scope. These actions would only take place as long as the integrity of the policy making process is maintained and EPA deadlines as interpreted by MWAQC are achieved.

IV. Proposed FY2012 Work Program Task Descriptions

	FY2012
1. SIP/Multipollutant Strategy Development	**$26,459**

MWAQC and the States will consider developing a $PM_{2.5}$ Redesignation Request and Maintenance Plan based on modeled out year inventories using MOVES. If the states agree to seek redesignation, staff will work with them to develop future year inventories for the Maintenance Plan. Staff will develop other required components of the maintenance plan such as maintenance demonstration, verification of continued attainment, section 110 and part D requirements, and development of a contingency plan and mobile budgets.

In July 2011 EPA plans to announce the revised ozone standard. Staff will coordinate with the States to develop a multi-sector, multi-pollutant strategy for the ozone SIP. Measures will be evaluated in terms of their potential to reduce ozone precursors, fine particles and reduce greenhouse gas emissions. Staff will track OTC/MARAMA ozone inventory development and photochemical modeling processes and provide inputs to them on behalf of the state air agencies.

Staff will quantify benefits from Energy Efficiency and Renewable energy programs and projects, in coordination with state and local energy offices and state air quality agencies. Staff will follow changes in monitoring networks for the new NAAQS, NO2, SO2, lead and CO. Staff will track concentrations of pollutants in preparation for the state recommended designations to EPA in 2011. Staff will brief Technical Advisory Committee (TAC) and MWAQC about EPA's new guidelines, rules and regulations and about state regulatory initiatives as needed.

Specific SIP tasks are described below. Staff will work with EPA Region 3 and states to obtain guidance for writing a fine particle maintenance plan for the 1997 annual fine particle standard if needed. With the agreement from the states, staff will develop a Redesignation Request and Maintenance plan for the 1997 fine particle standard.

- **Multipollutant Strategy**

Staff will develop a multipollutant strategy to reduce ozone, fine particles, NOx, SO_2 and greenhouse gases. Measures will be evaluated in terms of multipollutant benefits, costs and reasonableness of adoption and implementation.

Staff will analyze benefits from Energy Efficiency and Renewable Energy programs and projects (EERE) for inclusion in a fine particle SIP for credit. Staff will coordinate efforts with the state and local energy offices and state air quality agencies. Projects will be analyzed in terms of providing benefits for NOx, SO_2, and CO_2.

- **Public Policy Coordination**

Staff will track state legislation that affects air quality and climate change in the Washington region. Staff will provide information and a forum for coordinating public policies that affect air quality and climate change among the state air and energy agencies and local governments in the region.

Deliverables:	**Deadline:**
Draft $PM_{2.5}$ Maintenance Plan	November/December 2011
Final $PM_{2.5}$ Maintenance Plan	January 2012
Reports on state legislative activity	April – May, as needed
Coordinate public policies	Forums, calls as needed

2. Emissions Inventory Preparation/ Attainment Modeling

FY2012
$46,141

Staff will finalize emissions inventories for the $PM_{2.5}$ Maintenance Plan and participate in developing projection year (attainment) inventories for a new ozone SIP using EPA's new Nonroad 2008a model and the MOVES model. Staff will coordinate with the states to develop inventories for the next round of attainment modeling for the Washington region. Staff will participate on regional (OTC/MARAMA) inventory calls to develop consistent methodologies for area source inventories as well as for other sources. Staff will continue to work on inventories for the ozone SIP.

Staff will work closely with the states and TPB staff to develop local inputs for the new MOVES model so that it can be used as soon as possible for the ozone SIP work. Staff will develop base year and attainment year inventories for mobile, nonroad sources. Staff will participate in developing area inventories for relevant years.

Staff will refine the regional greenhouse gas emissions inventory, including emissions for N_2O, methane and refrigerants. Staff will develop inventories for target years as needed. Staff will convene meetings of the Emissions Inventory Committee as needed to discuss new methodologies and issues as they arise.

Attainment modeling for ozone SIPs will be 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. Virginia Dept. of Environmental Quality is doing modeling for the Washington-Baltimore domain in parallel with the larger effort.

MWAQC staff will convene periodic meetings of the Attainment Subcommittee, consisting of state air agency modelers, as needed 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 participate in quarterly modeling research meetings held by the University of Maryland and MDE staff. Staff will present significant policy issues involving the use of models for the Baltimore-Washington domain to TAC and MWAQC.

Deliverables:	**Deadline:**
Emissions Inventory Subcommittee	Conference calls, meetings as needed

Ozone base year, attainment year	Depending on EPA Revised Ozone NAAQS
Inventories	TBD
Attainment Modeling Subcommittee	As Needed
Meetings of UMD/MDE Modeling	Quarterly

3. Local Measures Coordination

FY2012
$32,659

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 of ozone, fine particles and greenhouse gases, and to provide a mechanism for calculating and reporting evidence of actions taken. Staff will convene a regional workgroup to develop a draft regional tree canopy management plan. Staff will update the regional database of Reasonably Available Control Measures (RACM) for use in preparing for the next ozone SIP. Staff will work to identify local measures to include in the PM maintenance plan and the next round of ozone SIPs.

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 and/or supplemental measures in the State Implementation Plans.

Deliverables:	**Deadline:**
Convene Regional Tree Canopy Workgroup	Fall 2011
Annual Progress Report Survey	January 2012
Update Local Voluntary Bundle for SIPs	Spring 2012
Update local measures in RACM	Spring 2012
Draft Regional Tree Canopy Management Plan	Spring 2012

4. Transportation Conformity/ Mobile Emission Analysis

FY2012
$157,872

MWAQC will review and comment on the conformity analysis for the 8-hour ozone, PM2.5 and carbon monoxide standards. The Transportation Planning Board (TPB) will propose FY 2012-2017 Transportation Improvement Plan (TIP) and 2011 Constrained Long Range Plan (CLRP) in the summer of 2011. MWAQC staff will review Mobile 6.2 model onroad inputs, inputs files and output files containing emissions rates and inventories developed by TPB staff for the analysis years 2012, 2020, 2030 and 2040. 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 the TPB Technical Committee about EPA regulations, new air quality standards, and guidance as they apply to conformity in the Washington region.

Although the MOVES grace period ends in 2012, staff will test the model on the 2011 TIP. MWAQC staff will work closely with COG Transportation Planning staff to develop inputs for the 2012-2017 TIP and 2011 CLRP using COG's new Travel Demand Model with MOVES in Fall 2011. Based on regional results using the MOVES model, it may be necessary to revisit the mobile budgets in the submitted SIPs.

Deliverables:	**Deadline:**
Comment on Transportation Conformity Analysis	November 2011
Conformity Scope	Feb-March 2012
Provide briefings and written reports to TPB and TPB Tech.Ctte	As needed
MOVES Training	As offered

5. Public Participation/ACPAC

FY2012

$53,231

Staff will support the Air and Climate Public Advisory Committee (ACPAC), 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. ACPAC will meet monthly except for August. Staff will respond to requests from the public and the media for air quality information.

Deliverables:	**Deadline:**
ACPAC meetings	Monthly, except for August
Media and public outreach	As needed

6. MWAQC/TAC Support

FY2011

$112,596

MWAQC Support includes staff support for MWAQC meetings, MWAQC Executive Committee and the Technical Advisory Committee meetings. MWAQC will meet about seven times during the year to discuss regulations, guidance and legislation about air quality and climate change issues affecting the Washington region.

The Technical Advisory Committee will meet monthly, with frequent subcommittee meetings. The Executive Committee will continue to meet monthly at a minimum, and more frequently if needed.

Staff will provide technical support to the Climate Energy Environment Policy Committee (CEEPC). Technical support to CEEPC is expected to include evaluating measures to meet the 2012 GHG emissions target, improving the greenhouse gas emissions inventory and developing metrics to measure progress on the target. With a goal of coordinating regional efforts with state and federal government efforts, COG staff will track climate change-related legislation in the state legislatures, the District and in Congress.

Deliverables:	**Deadline:**
MWAQC meetings (6-7)	Sept., Oct, Dec, Jan, Feb, April, June
MWAQC Executive Ctte Calls	Monthly (no August meeting)
Technical Advisory Ctte meetings	Monthly (no August meeting)
Joint Executives/MWAQC Meeting	TBD
CEEPC Technical Support	As needed

7. Project Management

FY2012

$44,657

Staff will prepare a draft work program and budget for the fiscal year 2013, and will work with the MWAQC Budget Subcommittee and MWAQC to get an approved budget in the spring before the fiscal year begins. Staff will provide quarterly financial and status reports to track the progress of implementing the approved work program and budget. Staff will hold monthly calls with the state air agencies to coordinate use of resources and progress on the SIP.

Staff uses computers extensively in performing analyses, completing written summaries, transmitting information via facsimile modem, downloading information from EPA's Technology Transfer Network, and the Internet for a variety of research needs. Contribution to computer support for project staff and management systems is accounted for in this task. Efforts to provide meeting materials on the Internet may also fall under this task.

Deliverables:	**Deadline:**
State Air Agency Coordination Calls	Monthly
Quarterly expense reports and progress Reports	Quarterly
Draft MWAQC FY 13 Work Program and Budget	Nov/Dec ‘11
MWAQC FY13 Work Program and Budget	March 2012 (MWAQC Adoption)

V. Regional Measures

The Regional Measures program has been developed to reflect the needs of COG member local governments. The proposed FY2012 COG Budget includes funding allocated to regional air quality planning that is available for this purpose. These measures provide technical support for local government climate change planning, including developing a GHG emissions inventory tools and data for smaller jurisdictions and an Air Quality and Energy Efficiency Outreach program directed at promoting clean energy use and energy efficiency, and explaining COG's Climate Change Report and 2012 Action Plan to the media.

FY2012

- **Technical Support for Climate Change Planning** **$41,181**

  Staff will provide technical support to a COG climate change planning effort. Technical support will include refinement of a regional greenhouse gas inventory and analysis of measures to reduce greenhouse gas emissions in the region.

  COG staff will work with local governments to develop greenhouse gas emissions inventories that are consistent with local government protocols and methodologies that are consistent with the regional inventory. Staff will assist local governments by developing regional GHG emission factors and collecting data needed for some GHG inventory software packages. Technical workshops or seminars will be offered to introduce the process and tool to COG local government members.

Deliverables:	**Deadline:**
Support for meetings/reports	As needed
Training sessions	Fall 2011

FY2012

- **Support for Local Government Voluntary Measures** **$30,581**

  Local governments in the Washington region will continue to work on their commitments to reduce emissions. MWAQC staff will assist local governments to develop programs that will work as a region to reduce emissions. 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. Staff will provide technical assistance on microgrid, Combined Heat and Power/ and district energy policy issues such as permitting, siting and legal hurdles.

  SIP tasks will include coordination and documentation of voluntary measures and technical support for lead local government agencies developing innovative voluntary measures. Local voluntary measures include environmental performance contracting, gas can replacement

programs, energy efficiency, renewable energy programs, such as purchase of wind energy, and climate change issues.

Deliverables:	**Deadline:**
Conference calls re new measures	As needed
Survey of progress on implementation	Annual
Tracking sheet for estimating reductions	Updated as needed
Meet local staff to discuss benefits Calculations, other issues	As needed

- **Air Quality and Climate Change, Reporting and Outreach** **FY 2012** **$38,255**

MWAQC leadership, COG/MWAQC Air Quality staff and COG Public Affairs staff will meet with the media, particularly environmental reporters and editorial boards, to inform them about air quality issues, climate change, and progress. Staff will make periodic reports about the air quality and current trends to the COG Board of Directors, Chief Administrative Officers' Committee, and to member local governments as requested. A newsletter/annual report will be produced to communicate with MWAQC members, new members, and the public about air quality planning. The goal of the outreach program will be to have a better informed media that provides more factually accurate and balanced reporting on regional air quality progress. This task also covers COG staff time to respond to media inquiries or support the MWAQC leadership in responding to media inquiries.

Deliverables:	**Deadline:**
MWAQC Annual Report	January 2012
Meetings with print media	As needed
Response to Media Inquires	Ongoing

VI. Proposed Funding Sources and Projected Budget for COG Staff

The proposed MWAQC Work Program for FY 2012 is a 12-month work program and budget for the period from July 1, 2011 to June 30, 2012.

The MWAQC bylaws adopted in October 2004 include a funding formula that allocates contributions to MWAQC by thirds, 1/3 from state air agencies, 1/3 from state transportation agencies, and 1/3 from local governments (Table 1). The proposed budget for the core work program is a total of $473,616. The state air agencies, the state and local departments of transportation and the Transportation Planning Board, and the Council of Governments will each contribute $157,872. The budget and the one-third contributions have remained the same every year since FY 2008.

The Regional Measures program is proposed to use COG local funding allocated to regional air quality planning in the COG FY 2010 budget for the purpose of supporting local measures to reduce air pollution and greenhouse gases, air quality outreach to local governments, public and the media. The total proposed budget for local government initiatives is $110,017. The sum of proposed budgets for the core program and local government initiatives is $583,633. The amount is approximately 1.5 percent less than the total for FY2011 due a reduction in the Regional Measures budget.

Table 2 presents a breakdown of cost by work program element, as was included in the enclosed work program task descriptions. Table 3 presents the allocation of COG staff time that is estimated to perform the tasks and subtasks described in this document. These estimates provide funding or partial funding for the anticipated staff positions as shown in Table 2.

Table 1
Proposed MWAQC Funding Contributions by Source FY 2012

Source	**Approved FY11**	**Requested FY11**	**Change**
COG	$157,872	$157,872	
State/local DOT/TPB	$157,872	$157,872	
State Air Agencies			
D.C.DOH	$19,038	$18,945	
MDE	$71,001	$71,042	
VDEQ	$67,833	$67,885	
States. Subtotal	$157,872	$157,872	
TOTAL	$473,616	$473,616	$0
Regional Measures			
COG local funds	$118,818	$110,017	-$8,801
SUBTOTAL Local Govt. Initiatives	$118,818	$110,017	-$8,801
TOTAL	$592,434	$583,633	-$8,801

Table 2
Proposed FY2012 Air Quality Work Program Tasks
(Breakdown of Costs by Type)

Work Program Tasks	COG staff ($)	Consultants($)	Direct$	Total Cost ($)
1. SIP Development/Multi-pollutant Strategy	25,709		750	$26,459
2. Emissions Inventory Development	46,141			$46,141
3. Local Measures	32,359	0	300	$32,659
4. Transportation Conformity/Mobile Emissions Analysis	157,872	0		$157,872
6. ACPAC, Public Participation	51,633		1,503	$53,231
7. MWAQC, TAC and Exec. Ctte Support	105,465	0	7,227	$112,596
8. Project Management	43,857	0	800	$44,657
TOTAL, Core	$463,036		$10,580	$473,616
Regional Measures				
CEEPC Support	38,181		3,000	$41,181
Local Measures Support	29,774		807	$30,581
AQ Reporting and Outreach	37,255		1,000	$38,255
SUBTOTAL, Regional Measures	$105,210		$4,307	$110,017
TOTAL	$568,246		$15,887	$583,633

Table 3. Air Quality Work Program Costs by Subtask, 7/1/11-6/30/12

Task/Subtask	*Total Hours*	*Total $*	*Total Direct costs*	Total Project $
I. Multipollutant StrategyDevelopment				
Multipollutant Strategy Dev.	230	27,884	750	26,459
Subtotal,	230	27,884	750	26,459
II. Emissions Inventories				
Preparation of emissions inventories	412	46,141	0	46,141
Subtotal, Inventory	412	46,141	0	46,141
III. Local Measures	320	35,359	300	32,659
IV. Transp.Conformity/Mobile Em.				
1. Prepare Emissions Factors	590	57,872	0	57,872
2. Transportation Conformity Coord	824	100,000	0	100,000
Subtotal, Transp.Conform./Mob.Emm.	1,414	157,872	0	157,872
V. Public Participation				
1. AQPAC Meetings (11)	441	36,949	1,064	38,013
2. Media and Public Outreach	185	14,780	439	15,219
Subtotal, Public Partic,Education	626	51,729	1,503	53,332
VI. MWAQC, TAC and Exec Ctte Support				
1.MWAQC Meetings (6)	442	43,052	6,066	49,118
2. Exec. Ctte Meetings (8)	40	6,301	0	6,301
3. TAC Ctte. Meetings (8)	372	37,286	1,065	38,351
4. EPA Region Coord/Consultation	178	18,826	0	18,826
Subtotal, MWAQC Support	1,032	105,465	7,131	112,596
VII. Project Management				
1. Work Program, Financial Reporting & Billing	404	43,857	800	44,657
Subtotal, Project Management	404	43,857	800	44,657
Total, Core	***4,213***	***463,132***	***10,618***	***473,616***

Regional Measures				
1. Climate Change Meeting Support	386	38,181	3,000	41,181
2. Local Measures Support	246	29,774	807	30,581
3. AQ Reporting and Outreach	298	37,255	1,000	38,255
Subtotal, Regional Measures	**930**	**104,714**	**4,807**	**110,017**
TOTAL	**5,143**	**576,101**	**15,425**	**583,633**