## Control Measures Selected for Action Plan

<table>
<thead>
<tr>
<th>SOURCE CATEGORY</th>
<th>Control Measure</th>
<th>Responsible Agency</th>
<th>Implementation Date</th>
<th>Emission Benefits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STATE &amp; LOCAL MEASURES</strong></td>
<td></td>
<td></td>
<td></td>
<td>VOC kg/day</td>
<td>NOx kg/day</td>
</tr>
<tr>
<td>Highway Sources</td>
<td></td>
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<tr>
<td>VMT and Trip Reduction Measures</td>
<td></td>
<td></td>
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<tr>
<td>Ride-matching/Commuter Connections</td>
<td>MWCOG &amp; MTA</td>
<td>On-going</td>
<td></td>
<td>-0.33</td>
<td>-0.31</td>
</tr>
<tr>
<td>Transit Programs:</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1) County Commuter bus services (9 routes)</td>
<td>1) Washington Co.</td>
<td>1) On-going</td>
<td></td>
<td>1) -5.30</td>
<td>-4.19</td>
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<tr>
<td>2) Turning Point transit services.</td>
<td>2) Washington Co.</td>
<td>2) On-going</td>
<td></td>
<td>2) -0.43</td>
<td>-0.41</td>
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<tr>
<td>3) Commuter bus service from Hagerstown to Shady Grove Metro Station</td>
<td>3) Washington Co.</td>
<td>3) On-going</td>
<td></td>
<td>3) -1.65</td>
<td>-1.75</td>
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<tr>
<td>Park and Ride Lots</td>
<td>MDOT</td>
<td>On-going</td>
<td></td>
<td>-1.77</td>
<td>-1.80</td>
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<tr>
<td>Telework Center/Telecommuting:</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1) Telework Center in Hagerstown (32 workspaces)</td>
<td>1) State/Fed Gov.</td>
<td>1) On-going</td>
<td></td>
<td>1) -0.19</td>
<td>-0.22</td>
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<tr>
<td>2) Telecommutin Outreach Program (homebased teleworkers)</td>
<td>2) MWCOG</td>
<td>2) On-going</td>
<td></td>
<td>2) -2.87</td>
<td>-3.12</td>
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<tr>
<td>Air Quality Action Days</td>
<td>MDE &amp; Washington Co.</td>
<td>By July 2005</td>
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<tr>
<td>Clean Air Partners/Public Education Outreach</td>
<td>MDE &amp; Washington Co.</td>
<td>On-going in other counties of MD.</td>
<td>Expand program to Washington Co.</td>
<td>---</td>
<td>---</td>
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<tr>
<td>E-government/E-commerce Enhancements</td>
<td>Washington Co. &amp; MVA</td>
<td>Website: ongoing. Call-In: Dec 2005</td>
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<td>-1.59</td>
<td>-0.31</td>
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<tr>
<td>Enterprise Zone Jobs Tax Incentives</td>
<td>Washington Co.</td>
<td>On-going</td>
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<td>-1.59</td>
<td>-1.85</td>
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<tr>
<td><strong>Sub-total:</strong></td>
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### Emission Benefits

<table>
<thead>
<tr>
<th>VOC kg/day</th>
<th>NOx kg/day</th>
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<tr>
<td>-28.96</td>
<td>-29.38</td>
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## Control Measures Selected for Action Plan

<table>
<thead>
<tr>
<th>SOURCE CATEGORY</th>
<th>Control Measure Description</th>
<th>Responsible Agency</th>
<th>Implementation Date</th>
<th>Emission Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>VOC kg/day</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NOx kg/day</td>
</tr>
<tr>
<td><strong>Traffic Flow Improvements</strong></td>
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<td><strong>Signal System Enhancements:</strong></td>
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<tr>
<td></td>
<td>1) US-40: Cleveland Ave. to Edgewood Rd.</td>
<td>1) SHA</td>
<td>1) Summer '03</td>
<td>1) -6.00</td>
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<tr>
<td></td>
<td>2) MD-65: Doub Way to Henry Douglas Dr.</td>
<td>2) SHA</td>
<td>2) FY '04</td>
<td>2) -4.22</td>
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<tr>
<td></td>
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<tr>
<td></td>
<td><strong>Incident Management/Intelligent Transportation Systems:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Highway Advisory Radio (3 locations)</td>
<td>MDOT - CHART</td>
<td>On-going</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>-17.59</td>
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<td><strong>Vehicle Acquisitions</strong></td>
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<td></td>
<td><strong>On-Road Vehicle Replacements</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1) Fleet Replacement (2 vehicles)</td>
<td>1) SHA</td>
<td>1) Two by 2005</td>
<td>1) -0.01</td>
</tr>
<tr>
<td></td>
<td>2) Transit fleet replacement (Bus replacement).</td>
<td>2) SHA</td>
<td>2) a) By 2003; b) Two by 2004 &amp; Three by 2005.</td>
<td>2) 0.02</td>
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<tr>
<td></td>
<td>a) Turning Point: one replacement.</td>
<td></td>
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<td>-13.60</td>
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<tr>
<td></td>
<td>b) County Commuter: 5 scheduled replacement.</td>
<td></td>
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<tr>
<td></td>
<td>3) Transit engine re-built (Installation of Emissions Reduction Devices on Engine Re-build - 6 engine re-builds).</td>
<td>3) SHA</td>
<td>3) Three by 2003 &amp; Three by 2004.</td>
<td>3) -1.49</td>
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<td></td>
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<td><strong>State Control Measures</strong></td>
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<td></td>
<td>Vehicle Emissions Inspection Program (VEIP)</td>
<td>MDE &amp; MDOT</td>
<td>On-going</td>
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<td></td>
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<td>-480.81</td>
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<td>-562.46</td>
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<td><strong>Sub-total:</strong></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>-510.10</td>
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<td></td>
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<td>-587.14</td>
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</table>
## Control Measures Selected for Action Plan

<table>
<thead>
<tr>
<th>SOURCE CATEGORY</th>
<th>Control Measure</th>
<th>Responsible Agency</th>
<th>Implementation Date</th>
<th>VOC kg/day</th>
<th>NOx kg/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area Sources</td>
<td>OTC Programs</td>
<td></td>
<td></td>
<td>1) MDE</td>
<td>1) On-going</td>
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<tr>
<td></td>
<td>1) Consumer Products (CP)</td>
<td>1) MDE</td>
<td>1) On-going</td>
<td>1) -108.86</td>
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<tr>
<td></td>
<td>2) Architectural and Industrial Maintenance (AIM)</td>
<td>2) MDE</td>
<td>2) On-going</td>
<td>2) -92.18</td>
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<tr>
<td></td>
<td>3) Portable Fuel Containers (PFC)</td>
<td>3) MDE</td>
<td>3) On-going</td>
<td>3) -54.43</td>
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<tr>
<td>Low Emissions Paint (Yellow &amp; White Paint for Road markings)</td>
<td>MDOT - SHA</td>
<td>On-going</td>
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<td>-26.28</td>
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<tr>
<td>Off-Road Sources</td>
<td>Off-Road Vehicle Replacements</td>
<td>Washington Co.</td>
<td>Two in 2002 and One in 2004</td>
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<td>--</td>
</tr>
<tr>
<td>Stationary Sources</td>
<td>RACT Controls. Washington County sources subject to RACT post 1999: -  (R. Paul Smith/Allegheny Energy)</td>
<td>MDE</td>
<td>On-going</td>
<td>0.00</td>
<td>-1312.31</td>
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</table>

**Sub-total:**

-281.75 -1312.31
## Control Measures Selected for Action Plan

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<thead>
<tr>
<th>SOURCE CATEGORY</th>
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<th>Implementation Date</th>
<th>Emission Benefits</th>
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<tbody>
<tr>
<td></td>
<td></td>
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<td>VOC kg/day</td>
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<tr>
<td>FEDERAL MEASURES</td>
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<td>NLEV</td>
<td>MDOT</td>
<td>On-going</td>
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<td>Tier II</td>
<td>MDOT</td>
<td>On-going</td>
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<td></td>
<td>HDE Standard</td>
<td>MDOT</td>
<td>By 2007</td>
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<td>Off-Road Sources</td>
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<tr>
<td></td>
<td>Phase I &amp; II engine standards</td>
<td>Federal rule</td>
<td>1997 &amp; 2002</td>
<td>---</td>
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<tr>
<td></td>
<td>Engine standards for diesel powered engines</td>
<td>Federal rule</td>
<td>2002</td>
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<td>Engine standards for gasoline powered marine engines</td>
<td>Federal rule</td>
<td>1998</td>
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<td>Engine standards for large gasoline-powered engines</td>
<td>Federal rule</td>
<td>2000</td>
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<td></td>
<td>Engine standards for locomotive engines</td>
<td>Federal rule</td>
<td>2001 to 2005</td>
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<td>Stationary Sources</td>
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<tr>
<td></td>
<td>NOx SIP Call</td>
<td>Federal rule &amp; State regulation</td>
<td>2004</td>
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<td>Sub-total:</td>
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<td></td>
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<td>TOTAL EMISSION BENEFITS (kg/day):</td>
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<td>TOTAL EMISSION BENEFITS (Tons/day):</td>
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## Control Measures - Contingency List

<table>
<thead>
<tr>
<th>SOURCE CATEGORY</th>
<th>Control Measure</th>
<th>Responsible Agency</th>
<th>Implementation Date</th>
<th>Emission Benefits</th>
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<tbody>
<tr>
<td><strong>HIGHWAY</strong></td>
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<td><strong>VMT and Trip Reduction Measures</strong></td>
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<tr>
<td></td>
<td>Government MOU - Voluntary Flextime/Alternative Work Schedules</td>
<td>MDE</td>
<td>By 2007</td>
<td>-4.57</td>
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<td><strong>State Control Measures (OTR Programs)</strong></td>
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<td>- Low RVP OR (Benefits of Low RVP program listed as a range)</td>
<td>MDE</td>
<td>By 2007</td>
<td>-208.65 to 444.52</td>
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<td></td>
<td>- RFG program</td>
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<td>-18.14 to 27.22</td>
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<td><strong>Fleet Operations</strong></td>
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<tr>
<td></td>
<td>Diesel vehicle emission control - Long duration truck idling reduction</td>
<td></td>
<td>By 2007</td>
<td>-3.24 to 6.48</td>
</tr>
<tr>
<td></td>
<td>(Utilization rate 50% to 25% parking spaces at Truck Stops/Rest Areas - Appx 100 to 200 parking spaces).</td>
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<td>-102.6 to 205.2</td>
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<td><strong>Traffic Flow Improvements</strong></td>
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<td>Incident Management/Intelligent Transportation Systems:</td>
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<td></td>
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<tr>
<td></td>
<td>CCTV (2 locations) &amp; Dynamic Message Signs (1 location)</td>
<td>MDOT - CHART</td>
<td>By 2007</td>
<td>-19.86</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>On-Road Vehicle Replacements</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1) Fleet Replacement (5 vehicles)</td>
<td>SHA</td>
<td>1) Five by 2007</td>
<td>-0.08</td>
</tr>
<tr>
<td></td>
<td>2) Transit fleet replacement (Bus replacement).</td>
<td>SHA</td>
<td>2) Three by 2006 &amp; Four by 2007.</td>
<td>0.03</td>
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<td>County Commuter: 7 scheduled replacement.</td>
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<td>-21.67</td>
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<td><strong>AREA SOURCES</strong></td>
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<td>Gas can replacement</td>
<td>Washington Co./MDE</td>
<td>By 2007</td>
<td>-4.10</td>
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<td>Lawnmower Replacement</td>
<td>Washington Co./MDE</td>
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<td>-1.18</td>
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<td></td>
<td>-0.03</td>
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<td><strong>TOTAL EMISSION BENEFITS (kg/day):</strong></td>
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<td>-241.65 to 480.76</td>
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<td><strong>TOTAL EMISSION BENEFITS (Tons/day):</strong></td>
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<td>-0.27 to 0.53</td>
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<td><strong>TOTAL EMISSION BENEFITS (Tons/day):</strong></td>
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<td>-0.17 to 0.29</td>
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