

MARICOPA ASSOCIATION OF GOVERNMENTS INFORMATION SUMMARY... for your review

DATE:

January 4, 2011

SUBJECT:

Recommendation of Prioritized List of Proposed PM-10 Certified Street Sweeper Projects for FY 2011 CMAQ Funding

SUMMARY:

The purchase of PM-10 Certified Street Sweepers supports committed control measures made in regional air quality plans to reduce particulate matter that becomes airborne from vehicle travel on paved roads. The fiscal year (FY) 2011 MAG Unified Planning Work Program and Annual Budget and the FY 2011-2015 MAG Transportation Improvement Program contain \$900,000 in FY 2011 Congestion Mitigation and Air Quality Improvement (CMAQ) funding to encourage the purchase and utilization of PM-10 Certified Street Sweepers. An additional \$367,855 in CMAQ is available from sweeper projects that have been requested to be deleted and from savings on sweepers that have cost less than anticipated, for a total amount of \$1,267,855. All of the seven sweeper projects for FY 2011 may be funded with the \$1,267,855 in available CMAQ. On November 30, 2010, the MAG Air Quality Technical Advisory Committee recommended a prioritized list of proposed PM-10 Certified Street Sweeper Projects for FY 2011 CMAQ funding.

Consistent with federal CMAQ guidance, MAG staff evaluated the sweeper projects for estimated emission reductions and cost-effectiveness based on federal funds requested. In addition, the Committee considered other data such as emission reductions, proximity to PM-10 monitors, frequency of sweeping, geographical area to be swept, expansion of areas to be swept, and number of certified street sweepers already purchased. The prioritized list of proposed PM-10 Certified Street Sweeper Projects for FY 2011 CMAQ funding and evaluation summary are included in the attachment.

According to the MAG Federal Fund Programming Principles, project applications are to be reviewed by the MAG Street Committee. On October 12, 2010, the Street Committee conducted a review of the PM-10 Certified Street Sweeper project applications.

PUBLIC INPUT:

An opportunity for public comment was provided at the MAG Air Quality Technical Advisory Committee meeting. No public comments were received.

PROS & CONS:

PROS: The purchase of PM-10 Certified Street Sweepers is supported by Measure #24 in the MAG Five Percent Plan for PM-10. This measure encourages the purchase and utilization of PM-10 certified street sweepers for reducing particulate emissions from paved roads in the Maricopa County PM-10 Nonattainment Area.

CONS: None.

TECHNICAL & POLICY IMPLICATIONS:

TECHNICAL: The MAG Five Percent Plan for PM-10 contains the committed measure "Sweep Streets with PM-10 Certified Street Sweepers".

POLICY: Using CMAQ funding for the member agency purchase of PM-10 Certified Street Sweepers will assist in the reduction of PM-10 emissions in the Maricopa County PM-10 Nonattainment Area.

ACTION NEEDED:

Recommend approval of a prioritized list of proposed PM-10 Certified Street Sweeper Projects for FY 2011 CMAQ funding.

PRIOR COMMITTEE ACTIONS:

Air Quality Technical Advisory Committee: On November 30, 2010, the MAG Air Quality Technical Advisory Committee recommended a prioritized list of proposed PM-10 Certified Street Sweeper Projects for FY 2011 CMAQ funding to the MAG Management Committee.

MEMBERS PRESENT

- | | |
|---|---|
| Doug Kukino, Glendale, Chairman | Steve Trussell for Russell Bowers, Arizona Rock Products Association |
| Larry Person, Scottsdale, Vice Chair | Amy Bratt, Greater Phoenix Chamber of Commerce |
| * Sue McDermott, Avondale | # Amanda McGennis, Associated General Contractors |
| * Elizabeth Biggins-Ramer, Buckeye | Spencer Kamps, Homebuilders Association of Central Arizona |
| # Jim Weiss, Chandler | Mannie Carpenter, Valley Forward |
| # Jamie McCullough, El Mirage | * Erin Taylor, University of Arizona Cooperative Extension |
| Kurt Sharp, Gilbert | Beverly Chenausky, Arizona Department of Transportation |
| * Cato Esquivel, Goodyear | Leonard Montenegro for Diane Arnst, Arizona Department of Environmental Quality |
| # Scott Bouchie, Mesa | * Environmental Protection Agency |
| # Janet Ramsey for William Mattingly, Peoria | Jo Crumbaker, Maricopa County Air Quality Department |
| Phil McNeeley, Phoenix | # Duane Yantorno, Arizona Department of Weights and Measures |
| # Antonio DeLaCruz, Surprise | Ed Stillings, Federal Highway Administration |
| Oddvar Tveit, Tempe | * Judi Nelson, Arizona State University |
| Grant Anderson for Mark Hannah, Youngtown | # Christopher Horan, Salt River Pima-Maricopa Indian Community |
| Ramona Simpson, Queen Creek | |
| * American Lung Association of Arizona | |
| Grant Smedley, Salt River Project | |
| Brian O'Donnell, Southwest Gas Corporation | |
| Mark Hajduk, Arizona Public Service Company | |
| * Gina Grey, Western States Petroleum Association | |
| * Valley Metro/RPTA | |
| * Dave Berry, Arizona Motor Transport Association | |
| Jeannette Fish, Maricopa County Farm Bureau | |

*Members neither present nor represented by proxy.

#Participated via telephone conference call.

+Participated via video conference call.

Street Committee: On October 12, 2010, the MAG Street Committee reviewed and discussed PM-10 Certified Street Sweeper Project Applications for Phoenix, Queen Creek, Scottsdale, Chandler, Mesa, and Guadalupe. This item was on the agenda for information and discussion, there was no committee action.

MEMBERS ATTENDING

- Dan Cook, Chandler, Chairman
- Lupe Harriger, ADOT
- Charles Andrews, Avondale
- Jose Heredia, Buckeye
- Lance Calvert, El Mirage
- * Tony Rodriguez, Gila River Indian Community
- Kurt Sharp, Gilbert
- Bob Darr, Glendale
- Hugh Bigalk, Goodyear
- Gino Turrubiarres, Guadalupe
- Paul Ward for Darryl Crossman, Litchfield Park
- * Tanya Glass for Chris Plumb, Maricopa County
- Ken Hall, Mesa
- * Andrew Cooper, Jr., Paradise Valley
- Ben Wilson, Peoria
- Shane L. Silsby, Phoenix
- Janet Martin, Queen Creek
- * Elaine Cabrera, Salt River Pima-Maricopa Indian Community
- Phil Kercher, Scottsdale
- Nicholas Mascia, Surprise
- Robert Yabes for Shelly Seyler, Tempe
- * Jason Earp, Tolleson
- Grant Anderson, Youngtown

*Members neither present nor represented by proxy.

CONTACT PERSON:

Dean Giles, (602) 254-6300

MAG Air Quality Technical Advisory Committee Recommendation

Prioritized List of Proposed PM-10 Certified Street Sweeper Projects for FY 2011 CMAQ Funding

\$1,267,855 in CMAQ Funding is Available for Sweeper Projects

										Supplemental Information			
Agency	Federal Cost	Local Cost	Total Cost *	Daily Emission Reduction (Kilograms/day)	Cost-Effectiveness (CMAQ dollar cost per annual metric ton reduced)	The requested certified street sweeper will:				Have local resources been committed for additional staff or equipment to support the sweeper project?		Please indicate in what geographical area(s) the requested certified street sweeper will operate	Number of certified street sweepers owned and operated by your agency. ++
						Replace non-certified sweeper	Expand	Increase Frequency	Replace older certified sweeper	Yes	No		
Phoenix-Central +	\$203,432	\$12,297	\$215,729	120	\$663				✓	✓		Camelback Rd north to Pinnacle Peak Rd, 51st Avenue to 72nd Street	36
Phoenix-North	\$203,432	\$12,297	\$215,729	73	\$1,085				✓	✓		Shea Blvd to the northern most city boundary, 67th Avenue to 72nd Street	36
Queen Creek +	\$83,427	\$5,043	\$88,470	26	\$1,255		✓	✓		✓		Town Center: Ellsworth Loop from Rittenhouse to Empire; Rittenhouse from Hawes to Village Loop; Ocotillo from Hawes to Ellsworth.	4
Scottsdale +	\$180,480	\$10,909	\$191,389	51	\$1,380				✓	✓		Pima Road to 64th Street / McKellips Road to Chaparral Road	7
Chandler +	\$234,435	\$14,171	\$248,606	19	\$4,774				✓	✓		S. of Frye rd to Chandler Hgts rd & E. of Price rd to Alma School rd. S. of Chandler Hgts rd to Hunt Hwy & E. of Ariz Ave to Valvista rd	10
Mesa +	\$218,915	\$13,232	\$232,147	39	\$11,033				✓		✓	Price Rd. to Signal Butte Rd. and Baseline to Thomas	7
Guadalupe	\$143,734	\$8,688	\$152,422	3	\$37,133			✓			✓	Avenida del Yaqui, Calle Guadalupe and Residential Streets	1
Total	\$1,267,855												

* Total cost for the CMAQ eligible portion of the project, excludes ineligible equipment.

+ Proposed sweeper projects for Phoenix - Central, Queen Creek, Scottsdale, Chandler and Mesa indicate sweeping adjacent to a PM-10 monitor.

++ The total number of certified street sweepers owned and operated by the agency, regardless of funding source.

STREET SWEEPERS

Agency	Issues
Chandler	
Guadalupe	
Mesa	
Phoenix	
Phoenix	
Queen Creek	This cost estimate for the sweeper seemed relatively low in comparison to the others. Is this the correct estimate/cost?
Scottsdale	