

Commuter Connections TERMS

Annual CO2 ESTIMATE

Tracking Sheet #	TERMS	Adjusted VT	Adjusted VMT	Adjusted VMT	TOTAL Annual CO2 (tons)	Cost effectiveness \$/ton	
		2005	2005	2005			
		Daily	Daily	Annual			
90	M-47C	Guaranteed Ride Home	11,847	334,088	83,522,000	42,558	13
90	M-47C	Employer Outreach	60,683	1,002,115	250,528,750	127,655	8
74	M-47	Integrated Rideshare	5,574	146,612	36,653,000	18,676	2
109	M-70B	Employer Outreach Bicycle	343	3,431	857,750	437	2398
73		Commuter Operations Center	9,783	279,055	69,763,750	35,548	14
75	M-92	M-92 (MD & VA Telework)	11,129	226,913	56,728,250	28,905	6
122	M-101A	Mass Marketing (2010-30)	7,299	132,861	33,215,250	16,925	142
		TOTAL:		531,268,750	270,704		

Tracking Sheet #	TERMS	Adjusted VT	Adjusted VMT	Adjusted VMT	TOTAL Annual CO2 (tons)	Cost effectiveness \$/ton	
		2008	2008	2008			
		Daily	Daily	Annual			
90	M-47C	Guaranteed Ride Home	12,593	355,136	88,783,886	46,047	12
90	M-47C	Employer Outreach	64,506	1,065,248	266,312,061	138,119	8
74	M-47	Integrated Rideshare	5,925	155,849	38,962,139	20,207	2
109	M-70B	Employer Outreach Bicycle	365	3,647	911,788	473	2216
73		Commuter Operations Center	10,399	296,635	74,158,866	38,462	13
75	M-92	M-92 (MD & VA Telework)	11,830	241,209	60,302,130	31,275	5
122	M-101A	Mass Marketing (2010-30)	7,759	141,231	35,307,811	18,312	131
		TOTAL:		564,738,681	292,895		

Tracking Sheet #	TERMS	Adjusted VT	Adjusted VMT	Adjusted VMT	TOTAL Annual CO2 (tons)	Cost effectiveness \$/ton	
		2012	2012	2012			
		Daily	Daily	Annual			
90	M-47C	Guaranteed Ride Home	13,589	383,199	95,799,734	48,549	12
90	M-47C	Employer Outreach	69,603	1,149,426	287,356,476	145,625	7
74	M-47	Integrated Rideshare	6,393	168,164	42,040,991	21,305	1
109	M-70B	Employer Outreach Bicycle	393	3,935	983,839	499	2102
73		Commuter Operations Center	11,221	320,076	80,019,021	40,552	13
75	M-92	M-92 (MD & VA Telework)	12,765	260,269	65,067,303	32,975	5
122	M-101A	Mass Marketing (2010-30)	8,372	152,392	38,097,892	19,307	124
		TOTAL:		609,365,256	308,812		

- Notes:
1. CO2 emission rate for light duty vehicles in 2005 is 462.25 g/mi (interpolated from rates in Ron Kirby's July 2007 TPB presentation)
 2. CO2 emission rate for light duty vehicles in 2008 is 470.5 g/mi (interpolated from rates in Ron Kirby's July 2007 TPB presentation)
 3. CO2 emission rate for light duty vehicles in 2012 is 459.74 g/mi (interpolated from rates in Ron Kirby's July 2007 TPB presentation and including a 3.7% reduction for CAFÉ vehicles phased-in beginning in 2011 based on Dan Metzler's spreadsheet)
 4. CO2 emissions by jurisdiction are based on funding commitments
 5. Cost effectiveness based on 2008 CCWP cost numbers

**TRAVEL DEMAND AND EMISSIONS REDUCTION FROM POTENTIAL TERMS UNDER CONSIDERATION
FOR CONFORMITY OF THE 2006 CLRP & FY 2007-2012 TIP**

Table - 9

Potential TERMS	VT (2010)	VMT (2010)	NOx (2010)	VOC (2010)	Cost Effectiveness		Project Category
			tons/day	tons/day	NOx (\$/t)	VOC (\$/t)	Category *
M-07A Voluntary Employer Parking Cash-Out Subsidy	16662	258261	0.1192	0.0741	5,379	8,655	C
M-24 Speed Limit Adherence (accelerated)		-	0.9167	-	26,618	-	TR
M-47c Employer Outreach for Private Sector Employers (expanded)	1323	20507	0.0095	0.0059	359,330	578,172	C
M-93 Improve Pedestrian Facilities Near Rail Stations	1428	22134	0.0102	0.0063	556,154	894,866	C
M-103 150 Taxicab Replacement Program - CNG (expanded)			0.203	0.1307	14,300	22,210	SP
M-103a 150 Taxicab Replacement Program - conventional vehicles		-	0.175	1,136	13,300	20,450	SP
M-110 10 Transit Stores in Maryland	2091	64989	0.0286	0.0151	17,320	32,850	C
M-111 Replace Traffic Signals with Lesser Controls		-	-	-	-	-	TR
M-113 6 Kiosks in Maryland	11	300	0.0001	0.0001	4,448,676	8,224,907	C
M-123 Employer Outreach for Public Sector Employers	10920	169260	0.0781	0.0485	41,827	67,301	C
M-132 Vanpool Incentive Program (expanded M-77b)	1785	111027	0.0478	0.0228	154,175	323,230	C
M-133 Metrorail Feeder Bus Service	0	6050	0.0025	0.0011	535,107	1,261,158	C
M-134 Implement Neighborhood Circulator Buses (10)	3000	46500	0.0215	0.0133	209,733	337,465	C
M-135 Construction of 1000 Parking Spaces at Metrorail Stations	0	20677	0.0087	0.0037	613,732	1,445,350	C
M-142E 100 CNG Buses in place of Old Diesel Buses	-	-	0.172	0.0326	77,631	410,051	SP
M-142F 100 Hybrid Buses in place of Old Diesel Buses	-	-	0.2095	0.0576	53,550	194,730	SP
M-142G 100 New Diesel Buses in place of Old Diesel Buses	-	-	0.1696	0.0556	40,250	122,900	SP
M-143 Real Time Bus Schedule Information	1232	19096	0.0088	0.0055	55,371	89,093	C
M-146 Purchase 185 WMATA buses (ridership growth)	18870	292485	0.135	0.0839	108,400	174,400	C
M-148 WMATA Bus Information Displays with Maps (2000 cases)	2210	34255	0.0158	0.0098	25,348	40,785	C
M-150 Enhanced Commuter Services- (HOV Facilities)	0	51716	0.0217	0.0092	392,867	925,922	C
M-151 Enhanced Commuter Services-US 1 (Reverse Commute)	1916	29693	0.0137	0.0085	588,810	947,409	C
M-152 Enhanced Commuter Services- (Rail Relief)	0	73082	0.0307	0.013	839,359	1,978,230	C
M-155 Expand Carsharing Program	290	4495	0.0021	0.0013	270,433	435,134	C
structure)	5100	79050	0.0365	0.0227	3,235,093	5,205,344	C
Weekends)	4284	66402	0.0306	0.019	2,282,683	3,672,893	C
M-159 W15-590 - Diesel Fuel Additive #	-	-	0.133	-	2,700	-	H
System #	-	-	0.61	-	1,000	-	H
M-161 Diesel Emulsion Fuel Additive (Non-road or Highway) **	-	-	0.18	-	12,000	-	H
M-162 Early Engine Retirement (Pre-88) **	-	-	0.9	-	2,200	-	H
M-163 Truck Idling (Truck Stops and Auxiliary Power Unit) **	-	-	0.4	-	4,600	-	H
M-164 International Green Diesel Retrofit #	-	-	0.14	-	141,000	-	H
M-165 Bike Stations at Rail Station	105	1628	0.0008	0.0005	905,260	1,456,714	C
M-144 Parking Impact Fees ¹	121836	1888453	0.8714	0.5415	1,818,865	2,926,599	C

Project Category: TR - Traffic Stream, C - Commute, H - Heavy Duty Vehicles (Engine Technology), SP- Specific Vehicle Type

** EPA Certified Technology available † Emission estimation under revision # No EPA certification Available ¹ This is a revenue generating TERM