Sheboygan Metropolitan Planning Area Transportation Improvement Program Calendar Years 2016 – 2019











December, 2015

SHEBOYGAN METROPOLITAN PLANNING AREA TRANSPORTATION IMPROVEMENT PROGRAM CALENDAR YEARS 2016 - 2019

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INTRODUCTION

Federal regulations which govern the planning process in metropolitan planning areas require the preparation of a Transportation Improvement Program (TIP), while state guidance requires the preparation of a TIP or TIP amendment consisting of a multiyear program of projects. Proposed transit operating, transit capital, elderly and disabled transportation, bicycle and pedestrian transportation, and street and highway projects must be included in an adopted TIP program of projects to be eligible for Federal aid.

Minor civil divisions within the Sheboygan Metropolitan Planning Area include: the Cities of Sheboygan and Sheboygan Falls; the Villages of Howards Grove and Kohler; the Town of Sheboygan; and portions of the Towns of Herman, Lima, Mosel, Sheboygan Falls and Wilson. Jurisdictions in the urbanized portion of the metropolitan planning area were requested to submit projects for consideration using Surface Transportation Program (STP) Urban funding; these projects were prioritized using the *STP Urban Project Prioritization Policy* developed by the MPO (see Appendix G). Two projects that appear in Table 6 of this TIP have been awarded STP Urban funding in the past two cycles:

- North Avenue from State Highway 42/Calumet Drive to North 15th Street: Design (which appeared in the 2015 2018 TIP) and reconstruction with no increase in capacity and rail work (Awarded STP Urban funding for the 2013 2018 and 2015 2020 cycles; project sponsor is the City of Sheboygan; design was programmed for 2015, and construction is scheduled for 2017 and 2018); and
- Superior Avenue from North Taylor Drive to North 29th Street: Design (which appeared in the 2015 2018 TIP) and reconstruction with no increase in capacity (Awarded STP Urban funding for the 2013 2018 and 2015 2020 cycles; project sponsor is the City of Sheboygan; design was programmed for 2015, and construction is scheduled for 2019).

Street and highway projects also were requested of area municipalities, the Sheboygan County Transportation Department and the Wisconsin Department of Transportation.

Transit capital projects and operating expenses for the period covered by this TIP were requested by the Sheboygan Parking and Transit Utility. The Sheboygan County Health and Human Services Department's Aging and Disability Resource Center (ADRC) and the Wisconsin Department of Transportation submitted specialized transportation projects and capital items for inclusion in this TIP. In addition, any Transportation Alternatives Program (TAP) projects have been officially approved by the Wisconsin Department of Transportation, while other bicycle and pedestrian transportation projects (from the Non-Motorized Transportation Pilot Program) have been approved by Sheboygan County.

The priority system for street and highway, transit capital, and bicycle and pedestrian transportation projects is based on the programmed project year. Priorities are established by the responsible agencies in the submittal of projects to the Bay-Lake Regional Planning Commission for inclusion in the TIP, with the exception of STP Urban projects, which are prioritized by the MPO following project proposal submittals. The Bay-Lake Regional Planning Commission then reviews the submitted projects based on compliance with short- and long-range transportation plan recommendations, availability of Federal, state and local transportation funds, and the air quality impacts of programmed improvements.

The Sheboygan MPO Technical and Policy Advisory Committees reviewed and recommended approval of the 2016 – 2019 TIP on December 10, 2015, and the Bay-Lake Regional Planning Commission approved this 2016 – 2019 TIP on December 11, 2015. Street and highway projects, transit operating funds and capital projects, elderly and disabled transportation and capital items, and bicycle and pedestrian transportation projects listed are in compliance with both short-range and long-range transportation plans for the Sheboygan Metropolitan Planning Area prepared by the Bay-Lake Regional Planning Commission.

TRANSPORTATION IMPROVEMENT PROGRAM

Transportation Improvement Programs (TIPs) have been completed or amended for the urbanized portion of the Sheboygan Metropolitan Planning Area since 1982, the year in which the Bay-Lake Regional Planning Commission was designated the Metropolitan Planning Organization (MPO) for the Sheboygan Urbanized Area. Following passage of the Intermodal Surface Transportation Efficiency Act (ISTEA) in 1991, both an urbanized area and a metropolitan planning area were required to be delineated following the 1990 Census; the long-range transportation plan and TIP were required to cover the larger metropolitan planning area (urbanized area plus territory outside the urbanized area expected to become urbanized in 20 years). Until recently, only projects in the smaller urbanized area were eligible for STP Urban funding; in the most recent funding cycles, MPOs have, at their discretion, been able to extend an existing STP Urban project which originates in the urbanized area outside that area as long as the entire project is within the metropolitan planning area. All maps in this document show the current (post-2010 Census) boundaries of the Sheboygan urbanized area and of the Sheboygan metropolitan planning area.

The TIP completed in 1982 listed projects only for the upcoming year, while TIPs completed in 1983 and 1984 were limited in scope to a three-year period. From 1985 to 1996, the TIP included projects for a five-year period. However, beginning with the 1998-2001 TIP completed and adopted in 1997, new TIPs began to cover a four-year period, due to a relative lack of projects in the fifth program year.

The 2016 – 2019 TIP is a listing of transit operating expenses and capital items, elderly and disabled transportation projects and capital items, bicycle and pedestrian transportation projects, and street and highway projects, including an element which is eligible for Federal aid and covers calendar years 2016, 2017, 2018 and 2019. This element contains those projects in the Sheboygan Metropolitan Planning Area which have highest priority as far as funding and implementation are concerned. It is estimated that nearly \$60,718,000 will be needed to meet anticipated project costs in the four-year element component of the TIP.

- In 2016, these costs will include nearly \$3,736,000 for transit operating expenses, \$510,000 for transit capital projects, over \$405,000 for elderly and disabled transportation operating expenses, \$0 for elderly and disabled transportation capital items, \$8,176,000 for bicycle and pedestrian transportation projects, and \$12,695,000 for street and highway projects.
- In 2017, these costs will include nearly \$3,773,000 for transit operating expenses, \$1,350,000 for transit capital projects, \$144,000 for elderly and disabled transportation capital items, \$958,000 for bicycle and pedestrian transportation projects, and \$2,654,000 for street and highway projects.

- In 2018, these costs will include nearly \$3,811,000 for transit operating expenses, \$900,000 for transit capital projects, \$0 for elderly and disabled transportation capital items, \$3,948,000 for bicycle and pedestrian transportation projects, and \$8,909,000 for street and highway projects.
- In 2019, these costs will include nearly \$3,849,000 for transit operating expenses, \$0 for transit capital projects, \$0 for elderly and disabled transportation capital items, \$175,000 for bicycle and pedestrian transportation projects, and \$4,725,000 for street and highway projects.

Elderly and disabled transportation operating expenses typically are not programmed beyond one calendar year. Again, Transportation Alternatives Program (TAP) and Congestion Mitigation and Air Quality (CMAQ) projects have been officially approved by the Wisconsin Department of Transportation, while other bicycle and pedestrian transportation projects (from the Sheboygan County Non-Motorized Transportation Pilot Program) have been approved by Sheboygan County, for the period covered by this TIP.

The next section of the TIP describes various transit projects which are scheduled for the program period, including transit operational funding, transit capital projects, elderly and disabled transportation operating expenses, and elderly and disabled transportation capital projects. This will be followed by a listing of bicycle and pedestrian transportation projects in the Sheboygan metropolitan planning area. This in turn will be followed by a description of the various street and highway projects which are scheduled for the program period.

A subsequent section of the main body of the TIP involves evidence of the financial capacity to complete all transit operating, transit capital, elderly and disabled transportation operating expenses, elderly and disabled transportation capital items, bicycle and pedestrian transportation projects, and street and highway projects listed in the TIP. A summary of the public participation process used in the development of this TIP is included as well. Another section of the TIP discusses the implementation status of projects recommended for 2015 in the *Sheboygan Metropolitan Planning Area TIP: Calendar Years 2015 – 2018* (including amendments to that TIP processed in 2015). A later section of the TIP discusses the air quality conformity process followed in the development of the TIP. This is followed by a statement on impacts of TIP projects on environmental justice. This in turn is followed by discussion concerning clarification of planning procedures and the Federal "Moving Ahead for Progress in the 21st Century" (MAP-21) act, which allows for a certain degree of flexibility in project selection. The final section of the main body of this document discusses TIP amendment guidelines.

Nine appendices are included in this TIP, and involve the following information:

- Appendix A: Glossary of Terms;
- Appendix B: Procedures for the Involvement of Private Enterprise in Transit Programs;
- Appendix C: Air Quality Conformity Statement;
- Appendix D: Financial Capacity Assessment of Shoreline Metro;
- Appendix E: Statement of Impacts of TIP Projects on Environmental Justice;
- Appendix F: MPO Approval of TIP;
- Appendix G: Surface Transportation Program (STP) Urban System Project

Prioritization Policy;

- Appendix H: Transition in Programming from SAFETEA-LU to MAP-21 Funding Programs; and
- Appendix I: Sheboygan MPO Technical and Policy Advisory Committees.

Transit Projects

Transit Operational Funding: 2016 – 2019

Table 1 lists the distribution of operational funding sources for the transit division of the Sheboygan Parking and Transit Utility (Shoreline Metro) for the 2016 – 2019 program period. Table 1 includes Shoreline Metro's core fixed-route transit service in the Cities of Sheboygan and Sheboygan and the Village of Kohler, and also includes ADA paratransit costs within the Shoreline Metro service area. Operating and administrative costs are assumed to increase by 1.0 percent each year between 2016 and 2019. Costs shown in Table 1 assume that route changes will be implemented at the beginning of any given calendar year.

Projected revenues are also shown in Table 1. Federal Section 5307 (general operating) revenues are anticipated to involve approximately 32.26 percent of operating costs each year throughout the period covered by this TIP. Table 1 also assumes that the Sheboygan Parking and Transit Utility will receive and utilize Community Development Block Grant (CDBG) entitlement funding (provided to the City of Sheboygan by the U.S. Department of Housing and Urban Development on an annual basis) to maintain transit services at a reasonable cost to the transit user and to the taxpayer each year over the program period; \$42,493 in CDBG funding is assumed to be available in each year covered by this TIP. State Section 85.20 (general operating) revenues are assumed to involve approximately 26.84 percent of operating costs each year throughout the period covered by this TIP. State Section 85.205 (paratransit supplemental) revenues are assumed to involve \$48,830 each year throughout the period covered by this TIP.

Municipal funding of transit begins at a base level of \$511,547 for the City of Sheboygan, \$35,178 for the City of Sheboygan Falls, and \$12,151 for the Village of Kohler in 2016. The municipal share of transit funding is expected to increase by approximately 2.73 percent from 2016 to 2017, by approximately 2.69 percent from 2017 to 2018, and by approximately 2.64 percent from 2018 to 2019. Municipal funding of transit covers approximately 14.96 percent of total expenses in 2016, 15.22 percent of total expenses in 2017, 15.47 percent of total expenses in 2018, and 15.72 percent of total expenses in 2019.

Farebox revenues used to finance transit service begin at a base level of \$715,000 in 2016, then are assumed to remain at this level throughout the period covered by this TIP. Farebox funding of transit covers approximately 19.14 percent of total expenses in 2016, 18.95 percent of total expenses in 2017, 18.76 percent of total expenses in 2018, and 18.58 percent of total expenses in 2019.

Other revenues (advertising and proprietary revenues, interest income, etc.) are assumed to remain flat in absolute terms throughout the period covered by this TIP.

Calendar Year	Table 1 rs 2016 - 2019: Transi			
	(TIP ID No.: 372-16-2	(01)	_	
	2016	2017	2018	2019
Operating Expenses	\$3,735,639	\$3,772,995	\$3,810,725	\$3,848,833
Farebox Revenue	\$715,000	\$715,000	\$715,000	\$715,000
Other Revenue (Advertising, Investments, etc.)	\$162,585	\$162,585	\$162,585	\$162,585
Total Deficit	\$2,858,054	\$2,895,410	\$2,933,140	\$2,971,248
Federal Funding Sources:				
Section 5307	\$1,205,158	\$1,217,210	\$1,229,382	\$1,241,675
HUD CDBG Entitlement Funds	\$42,493	\$42,493	\$42,493	\$42,493
State Funding Sources:				
Section 85.20	\$1,002,697	\$1,012,724	\$1,022,851	\$1,033,080
Section 85.205	\$48,830	\$48,830	\$48,830	\$48,830
Local Funding Sources:				
City of Sheboygan	\$511,547	\$525,531	\$539,654	\$553,920
City of Sheboygan Falls	\$35,178	\$36,140	\$37,111	\$38,092
Village of Kohler	\$12,151	\$12,483	\$12,819	\$13,157
Total Funding	\$2,858,054	\$2,895,411	\$2,933,140	\$2,971,247
Balance	\$0	\$0	\$0	\$0

Assumptions made in developing Table 1:

- (1) Operating and administrative costs are assumed to increase by 1.0 percent each year throughout the period covered by this TIP.
- (2) ADA paratransit costs are included in operating expenses. All other paratransit costs can be found in Table 3.
- (3) Farebox revenues are assumed to remain flat in absolute dollars throughout the period covered by this TIP.
- (4) Other revenues (advertising and proprietary revenues, interest income, etc.) are assumed to remain flat in absolute dollars throughout the period covered by this TIP.
- (5) Federal Section 5307 (general operating) revenues are assumed to involve approximately 32.26 percent of operating expenses throughout the period covered by this TIP.
- (6) The Sheboygan Parking and Transit Utility expects to continue utilizing Community Development Block Grant (CDBG)
 Entitlement funding (provided to the City of Sheboygan by the U.S. Department of Housing and Urban Development on an annual basis) to maintain transit services at a reasonable cost to the transit user and to the taxpayer each year over the program period. The amount in each year covered by this TIP will be \$42,493.
- (7) State Section 85.20 (general operating) revenues are assumed to involve approximately 26.84 percent of operating expenses throughout the period covered by this TIP.
- (8) State Section 85.205 (paratransit supplemental) revenues will involve \$48,830 each year throughout the period covered by this TIP.
- (9) The City of Sheboygan is assumed to provide approximately 91.5 percent of local funding sources for transit operation. The City of Sheboygan Falls is assumed to provide approximately 6.3 percent of local funding sources for transit operation. The Village of Kohler is assumed to provide approximately 2.2 percent of local funding sources for transit operation.
- (10) Balances of \$1 or less (positive or negative) are due to rounding error.

Source: City of Sheboygan Parking and Transit Utility, 2015; and Bay-Lake Regional Planning Commission, 2015.

Transit Capital Projects: 2016 – 2019

Table 2 lists capital projects for the transit division of the Sheboygan Parking and Transit Utility (Shoreline Metro) for the 2016 – 2019 period. Of these projects, two capital projects are recommended for 2016, two capital projects are recommended for 2017, one capital project is recommended for 2018, and no capital projects are recommended for 2019.

Calendar Years 2016 - 2019: Transit Capital Items (In Thousands of Dollars)

Table 2

						Cal	lendar Years 2	2016 - 2019: Thousands of		pitai Items										
Primary Jurisdiction/		Type of		Jan De	c 2016		(111.1	Jan De				Ian .	Dec. 2018		1	Jan .	Dec. 2019		Year	Air Quality
Project Sponsor	Project Description	Cost	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Tota		Status
Sheboygan Parking and	Replacement of One (1) 35-Foot																		2025	Exempt
Transit Utility	Fixed-Route Bus	PE				0	,												2023	Zaempe
Transit Curry	(Transit Preservation)	ROW				0														
	(Transit Treser vacion)	ACQUI	324	0	86	410														
		ACQUI	324	U	00	410														
		TOTAL	324	0	86	410														
TIP ID No.: 372-15-203		IOTAL	5339	U	80	410	'													
Sheboygan Parking and	Replacement of 50 Dispatch Radios		3339				1				-				_				2025	F
		DE																	2023	Exempt
Transit Utility	(Transit Preservation)	PE				U	<u>'</u>													
		ROW				0	<u>'</u>													
		ACQUI	0	0	100	100	'													
		TOTAL	0	0	100	100)													
TIP ID No.: 372-15-205																				
Sheboygan Parking and	Completion of Transit Development			·		·													2025	Exempt
Transit Utility	Program (TDP) for Shoreline Metro	PE									0				1					1
	(Transit Preservation)	ROW									0									
		ACQUI					40	0	1	0 5	0									
(ILLUSTRATIVE PROJECT		TOTAL					40	0	1	0 5	0									
- NOT PROGRAMMED)		101112					5304	Ü	•											
Sheboygan Parking and	Replacement of Forklift						3304												2025	Exempt
Transit Utility	(Transit Preservation)	PE									0								2023	Exempt
Transit Ounty	(Transit Trescrvation)	ROW									0									
		ACQUI					32	0		8 4	0									
		ACQUI					32	U		0 4	.0									
(ILLUSTRATIVE PROJECT		TOTAL					22	0		8 4										
		TOTAL					32	U		8 4	٥									
- NOT PROGRAMMED)							5307/5339													
Sheboygan Parking and	GFI Farebox Replacement and Farebox																		2025	Exempt
Transit Utility	Data System Upgrade	PE									0									
	(Transit Preservation)	ROW									0									
		ACQUI					120	0	3	0 15	0									
(ILLUSTRATIVE PROJECT		TOTAL					120	0	3	0 15	0									
- NOT PROGRAMMED)							5307/5339													
Sheboygan Parking and	Replacement of Two (2) 35-Foot																		2025	Exempt
Fransit Utility	Fixed-Route Buses	PE									0									
•	(Transit Preservation)	ROW									0									
	, , , , , , , , , , , , , , , , , , , ,	ACQUI					720	0	18	0 90	0									
							. 20	Ü							1					
		TOTAL					720	0	18	0 90	0				1					
TIP ID No.: 372-15-209		1.0					CMAQ	Ü	10	. ,	~				1					
Sheboygan Parking and	Replacement of One (1) 35-Foot	+	<u> </u>				CMAQ								+				2025	Exempt
Transit Utility	Fixed-Route Bus	PE									0				1				2023	Exchipt
Transit Offity											0				1					
	(Transit Preservation)	ROW					255	^	_		0				1					1
		ACQUI					355	0	9	5 45	U				1					
										_					1					
		TOTAL					355	0	9	5 45	0				1					
TIP ID No.: 372-16-202							5307/5339													1

Table 2 Calendar Years 2016 - 2019: Transit Capital Items (In Thousands of Dollars)

							(In	Thousands	of Dollars)											
Primary Jurisdiction/		Type of		Jan D	ec. 2016			Jan 1	Dec. 2017			Jan D	ec. 2018			Jan D	ec. 2019		Year	Air Quality
Project Sponsor	Project Description	Cost	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Open	Status
Sheboygan Parking and	On-Board Video Surveillance System for																		2025	Exempt
Transit Utility	Paratransit Vehicles	PE												0						
	(Transit Preservation)	ROW												0						
		ACQUI									48	0	12	60						
(ILLUSTRATIVE PROJECT - NOT PROGRAMMED)		TOTAL									48 5307/5339	0	12	60						
Sheboygan Parking and	Replacement of Two (2) 35-Foot																		2025	Exempt
Transit Utility	Fixed-Route Buses	PE												0						
-	(Transit Preservation)	ROW												0						
		ACQUI									720	0	180	900						
TIP ID No.: 372-15-208		TOTAL									720 CMAQ	0	180	900						
Sheboygan Parking and	Replacement of Three (3) 35-Foot																		2025	Exempt
Transit Utility	Fixed-Route Buses	PE																0		_
	(Transit Preservation)	ROW																0		
		ACQUI													1,080	0	270	1,350		
(ILLUSTRATIVE PROJECT - NOT PROGRAMMED)		TOTAL													1,080 5307/5339	0	270	1,350		
Sheboygan Parking and	Replacement of Ten (10) Office, Dispatch																		2025	Exempt
Transit Utility	and Maintenance Computers	PE																0		
	(Transit Preservation)	ROW																0		
		ACQUI													6	0	2	8		
(ILLUSTRATIVE PROJECT		TOTAL													6	0	2	8		
- NOT PROGRAMMED)															5307/5339					

NOTES: The following funding codes are used to identify Federal funding sources:

5304 = Section 5304 Federal Transit Administration funding will be the Federal funding source; this is a discretionary transit planning program administered by the WisDOT Bureau of Transit, Local Roads, Railroads and Harbors.

5307/5339 = Section 5339 (formerly Section 5309 in SAFETEA-LU) Federal Transit Administration funding will be the Federal funding source. In the event that Section 5339 funding is not available, Section 5307 Federal Transit Administration funding will be the Federal funding source.

CMAQ = The Congestion Mitigation and Air Quality improvement program will be the Federal funding source; this is a competitive program for Wisconsin's air quality nonattainment and maintenance areas administered by the WisDOT Bureau of Transit, Local Roads, Railroads and Harbors.

2016 - 2019 Funding Summary.

Total Transit Preservation Project Funding = \$2,760,000

Total Transit Improvement Project Funding = \$0

Total Transit Expansion Project Funding = \$0

Source: City of Sheboygan Parking and Transit Utility Commission, 2015; and Bay-Lake Regional Planning Commission, 2015.

Two capital expenditures are recommended for calendar year 2016:

- One (1) fixed-route bus (with a length of 35 feet) is expected to be purchased in 2016. This new bus will be used to replace one older bus that will have exceeded its life expectancy at the time of replacement. The new bus will provide a better transportation experience for passengers as well as reduce operating budget maintenance and repair costs. Shoreline Metro staff notes that from the time a purchase order is issued for new buses, it typically takes about one year for delivery. The cost of this 2016 project is \$410,000. The Federal share for this bus will come from either the Federal Transit Administration (FTA) Section 5339 or Section 5307 capital program.
- Shoreline Metro plans to replace 50 of its dispatch radios in 2016. These radios have been used for several years, and are in need of replacement. The cost of this 2016 project is \$100,000. This project is expected to be entirely funded at the local level (no Federal funding).

Two capital expenditures are recommended for calendar year 2017:

- Two (2) fixed-route buses (with a length of 35 feet each) are expected to be purchased in 2017. These new buses will be used to replace two older buses that will have exceeded their life expectancy at the time of replacement. The planning justification for this project is similar to that for the 2016 fixed-route bus acquisition. The cost of this 2017 project is \$900,000. The Federal share for these buses will come from the Congestion Mitigation and Air Quality (CMAQ) program.
- One (1) fixed-route bus (with a length of 35 feet) is expected to be purchased in 2017. This new bus will be used to replace one older bus that will have exceeded its life expectancy at the time of replacement. The planning justification for this project is similar to that for the 2016 fixed-route bus acquisition. The cost of this 2017 project is \$450,000. The Federal share for this bus will come from either the FTA Section 5339 or Section 5307 capital program.

In addition, three capital expenditures are listed as illustrative projects for calendar year 2017, and will be added to the TIP if funding materializes:

- Completion of a transit development program (TDP) for Shoreline Metro is an illustrative project for 2017. The current TDP covers the period from 2012 through 2016, and the TDP will be due for updating in 2017; the updated TDP is expected to cover the period from 2018 through 2022. Some of the preliminary survey work for this TDP (i.e.: passenger opinion and boarding and alighting surveys) should be completed prior to 2017. The cost of this 2017 project is \$50,000. If funded, the Federal share of this project would involve Federal Transit Administration (FTA) Section 5304 funds.
- Replacement of a forklift is an illustrative project for 2017. The existing forklift was acquired in 1979, and is in dire need of replacement. Shoreline Metro needs to provide and use safe equipment in its operations. The existing forklift does not meet state safety standards, and therefore should be retired. The transit facility uses a forklift on a regular basis, and the shop employees are certified forklift operators. Many tasks are completed with use of the forklift, including: accessing and storing large, heavy bus parts in the warehouse storage racks; unloading freight from delivery trucks; replacing engines and transmissions; moving out-of-service buses around the facility; and handling drums of

- waste oil for the waste oil furnace. The cost of this 2017 project is \$40,000. If funded, the Federal share of this project would involve FTA Section 5339 or Section 5307 capital funds.
- An updated farebox data system is an illustrative project for 2017. This project would involve the replacement of Shoreline Metro's GFI fareboxes for its fixed-route buses. The farebox is an electronic fare media device which accepts and documents the fares, logs passenger trip and fare data, and ensures tamper-proof chain-of-custody for the funds generated through fares. The existing fares date back to the mid-1980s, and are an aging but essential tool for the operation of the transit system. The fareboxes and affiliated software contain the infrastructure needed for compilation of data necessary to receive state and Federal funding. The cost of this 2017 project is \$150,000. If funded, the Federal share of this project would involve FTA Section 5339 or Section 5307 capital funds.

One capital expenditure is recommended for calendar year 2018:

• Two (2) fixed-route buses (with a length of 35 feet each) are expected to be purchased in 2018. These new buses will be used to replace two older buses that will have exceeded their life expectancy at the time of replacement. The planning justification for this project is similar to that for the 2016 fixed-route bus acquisition. The cost of this 2018 project is \$900,000. The Federal share for both buses will come from the CMAQ program.

In addition, one capital expenditure is listed as an illustrative project for calendar year 2018, and will be added to the TIP if funding materializes:

 Acquisition and installation of an on-board video surveillance system for Shoreline Metro's paratransit vehicles is an illustrative project for 2018. When a problem occurs, video surveillance is relied upon. The cost of this 2018 project is \$60,000. If funded, the Federal share of this project would involve FTA Section 5339 or Section 5307 capital funds.

No capital expenditures are recommended for calendar year 2019.

However, two capital expenditures are listed as illustrative projects for calendar year 2019, and will be added to the TIP if funding materializes:

- Purchase of three (3) fixed-route buses (with a length of 35 feet each) is an illustrative project for 2019. These new buses will be used to replace three older buses that will have exceeded their life expectancy at the time of replacement. The planning justification for this project is similar to that for the 2016 fixed-route bus acquisition. The cost of this 2019 project is \$1,350,000. If funded, the Federal share of this project would involve FTA Section 5339 or Section 5307 capital funds.
- Replacement of ten (10) computers in Shoreline Metro's office, dispatch and maintenance work stations is an illustrative project for 2019. All of these computers are aging and in need of replacement. The cost of this 2019 project is \$7,500. (Note: This was rounded to \$8,000 in Table 2). If funded, the Federal share of this project would involve FTA Section 5339 or Section 5307 capital funds.

Elderly and Disabled Transportation Operating Expenses: 2016

Elderly and disabled transportation operating expenses are identified in Table 3. The Sheboygan County Health and Human Services Department's Aging and Disability Resource Center (ADRC), which handles elderly and disabled transportation in the Sheboygan Metropolitan Planning Area and elsewhere in Sheboygan County, normally does not program operating expenses beyond one calendar year. The projects identified in Table 3 involve operating expenses for calendar year 2016. These projects include a volunteer driver program and the purchase of specialized (elderly and disabled, but non-ADA) transportation services from Shoreline Metro (operating as Metro Connection).

Elderly and Disabled Transportation Capital Projects: 2016 – 2019

Elderly and disabled transportation capital projects are identified in Table 4. The Sheboygan County Health and Human Services Department's ADRC has filed a Section 5310 grant application with WisDOT for 80 percent Federal funding (with 20 percent local or sponsor funding) on the purchase of nine replacement vehicles in the 2016 – 2017 funding cycle. In December 2015, the WisDOT Bureau of Transit, Local Roads, Railroads and Harbors notified the MPO that two of these vehicles (medium sized buses in 2017) would be awarded to Sheboygan County, and will be operated by Shoreline Metro; this is the one item that is programmed in the TIP, with all other needed elderly and disabled transportation capital projects being listed as "illustrative projects." WisDOT staff did indicate that additional Section 5310 projects may be selected with a small amount of remaining funding in early 2016; if Sheboygan County or other applicants in the metropolitan planning area are awarded vehicles through this process, the TIP will be amended to officially program these projects. Additional vehicles are expected to be acquired through future Section 5310 grant applications in 2018 and 2019 based on review and updating of the 2012 Coordinated Public Transit – Human Services Transportation Plan for Sheboygan County and the capital programs of Sheboygan County and Shoreline Metro.

In the State of Wisconsin, with the exception of larger (over 200,000 population) urbanized areas (which are required to have their own selection processes under MAP-21), WisDOT reviews all Section 5310 vehicle grant applications from public and private non-profit agencies, ranks the applications, and selects the top projects to be included in a single state Section 5310 grant application to the FTA.

	Calendar Year 2016: Eld	Table 3 lerly and Disabled	Transportation P	rojects		
Responsible Agency	Project	Total Cost	Federal Share	State Share	Local Share	Fares/Contributions
Sheboygan County Health and Human Services Department TIP ID No.: 372-16-203	Volunteer Driver Program	\$34,901	\$8,334 OAA	\$0	\$12,119	\$14,448
Sheboygan County Health and Human Services Department TIP ID No.: 372-16-204	Purchase of Specialized Transportation Services from Shoreline Metro	\$370,500	\$0	\$267,083	\$53,417	\$50,000

NOTE: The following funding code is used to identify a federal funding source:

OAA = Older Americans Act funding (provided by the U.S. Department of Health and Human Services, **not** by USDOT).

Source: Sheboygan County Health and Human Services Department, 2015; and Bay-Lake Regional Planning Commission, 2015.

	Health and Human Se Department and Shor Metro (one vehicle for Sheboygan County ar
	vehicles for Shoreline
	- NOT PROGRA
	RCS Empowers, Inc.
	(ILLUSTRATIVE I - NOT PROGRA
34	RCS Empowers, Inc.

					Calend	ar Years 20		Table derly and Di	sabled Trans	sportation C	Capital Projects	s								
Primary Jurisdiction/		Type of		Jan De	c 2016		(111	Jan De				Jan De	ec 2018			Ian - Γ	Dec. 2019		Year	Air Quality
Project Sponsor	Project Description	Cost	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Available	Status
Sheboygan County Health and Human Services Department and Shoreline Metro (one vehicle for Sheboygan County and four vehicles for Shoreline Metro)	Five minibuses with 8 ambulatory positions and one wheelchair position. The vehicles will be used for transportation for the elderly and persons with disabilities. (Replacement)	PE ROW ACQUI TOTAL	288.0 288.0 5310	0.0	72.0 72.0	0.0 0.0 360.0 360.0													2025	Exempt
(ILLUSTRATIVE PROJECT - NOT PROGRAMMED)	,																			
RCS Empowers, Inc.	One medium sized gas powered bus with 10 ambulatory positions and two wheelchair positions. The vehicles will be used for transportation for the elderly and persons with disabilities. (Replacement)	PE ROW ACQUI TOTAL	43.2 43.2 5310	0.0	10.8 10.8	0.0 0.0 54.0													2025	Exempt
- NOT PROGRAMMED)																			2025	Exempt
RCS Empowers, Inc. (ILLUSTRATIVE PROJECT - NOT PROGRAMMED)	One minivan with 3 to 4 ambulatory positions and one to two wheelchair positions. The vehicles will be used for transportation for the elderly and persons with disabilities (Replacement)	PE ROW ACQUI TOTAL	28.8 28.8 5310	0.0	7.2 7.2	0.0 0.0 36.0 36.0													2023	Exempt
Sheboygan County Health and Human Services Department (applicant) and Shoreline Metro (operator) (two vehicles)	Two medium sized buses with 10 ambulatory positions and two wheelchair positions. The vehicles will be used for transportation for the elderly and persons with disabilities (Replacement).	PE ROW ACQUI TOTAL					115.2 115.2 5310	0.0	28.8 28.8	0.0 0.0 144.0									2025	Exempt
TIP ID No.: 372-16-205																			2025	Evampt
Sheboygan County Health and Human Services Department and Shoreline Metro (one vehicle each) (ILLUSTRATIVE PROJECT - NOT PROGRAMMED)	Two medium sized buses with 10 ambulatory positions and two wheelchair positions. The vehicles will be used for transportation for the elderly and persons with disabilities (Replacement).	PE ROW ACQUI TOTAL									115.2 115.2 5310	0.0			0				2023	Exempt

					Calen	dar Years 2	016 - 2019: E	Table lderly and D n Thousands	isabled Tran	sportation C	Capital Projec	ets								
Primary Jurisdiction/		Type of		Jan D	ec. 2016			Jan D	ec. 2017			Jan I	Dec. 2018			Jan D	ec. 2019		Year	Air Quality
Project Sponsor	Project Description	Cost	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Available	Status
Health and Human Services Department and Shoreline Metro (one vehicle each)	Two medium sized buses with 10 ambulatory positions and two wheelchair positions. The vehicles will be used for transportation for the elderly and persons with disabilities (Replacement).	PE ROW ACQUI TOTAL													115.2 115.2 5310	0.0	28.8 28.8	0.0 0.0 144.0	2025	Exempt
(ILLUSTRATIVE PROJECT - NOT PROGRAMMED)																				

NOTE: The following funding code is used to identify federal funding sources:

5310 = Section 5310 Federal Transit Administration funding will be the federal funding source. Section 5310 is a capital program used to obtain vehicles for elderly and disabled transportation provided by counties and by nonprofit organizations.

Source: Sheboygan County Health and Human Services Department, 2015; Shoreline Metro, 2015; and Bay-Lake Regional Planning Commission, 2015.

Bicycle and Pedestrian Transportation Projects

One bicycle and pedestrian transportation project has been officially approved by the Wisconsin Department of Transportation for the period covered by this TIP; this is evident in Table 5:

• Some \$175,000 is programmed in each of calendar years 2016, 2017, 2018 and 2019 for "grouped" transportation alternative/enhancement projects that may occur in the Sheboygan Metropolitan Planning Area. This bicycle and pedestrian transportation project involves 80 percent Federal participation and 20 percent state participation.

In addition, as indicated in Table 5, Sheboygan County has approved the following projects to be implemented under its Non-Motorized Transportation Pilot Program (NMTPP, a Federal earmark in SAFETEA-LU awarded to Sheboygan County) over the period covered by the TIP:

- Sheboygan County NMTPP: Level of effort for program oversight, including education and outreach (\$100,000 in 2016, and \$50,000 in each of 2017 and 2018);
- Bicycle/pedestrian path on Taylor Drive in the City of Sheboygan (\$7,133,000 for construction in 2016, and \$376,000 for construction in 2017);
- NMTPP marketing/branding (\$68,000 for marketing and branding in 2016, and \$67,000 for marketing and branding in 2017);
- Planning study for a road diet/multi-use track facility on Indiana Avenue from South 17th Street in the City of Sheboygan to Highland Drive in the Village of Kohler (\$500,000 for a study in 2016);
- Construction of a bridge for bicyclists and pedestrians over the Sheboygan River near the former Tecumseh Engines plant in the City of Sheboygan Falls (\$64,000 for design in 2017, and \$319,000 for construction in 2018);
- Construction of a multi-use pathway in the Alliant Energy utility corridor on the south side of the City of Sheboygan (\$200,000 for design in 2016, \$100,000 for design in 2017, and \$2,900,000 for construction in 2018); and
- Union Pacific rails-to-trails conversion extension in the City of Sheboygan: Pennsylvania Avenue to Indiana Avenue, including an eastern extension to South 9th Street paralleling Indiana Avenue (\$126,000 for design in 2017, and \$504,000 for construction in 2018).

All of the NMTPP projects indicated above involve 100 percent Federal funding.

In addition, Table 5 includes four illustrative projects that are not officially programmed in this 2016 - 2019 TIP:

- Construction of multi-use pathways on North Taylor Drive between Kohler Memorial Drive and Superior Avenue and from the intersection of North Taylor Drive and North Avenue into Evergreen Park (\$36,000 for design in 2017, and \$144,000 for construction in 2018);
- Conversion of County Highway PP into a linear parkway and trail facility from Highland Drive to South Taylor Drive (\$225,000 for design in 2017, and \$2,900,000 for construction in 2018);

Table 5

Calendar Years 2016 - 2019: Bicycle and Pedestrian Transportation Projects

							(In T	Thousands o												
Primary Jurisdiction/		Type of		Jan De				Jan Do				Jan D					Dec. 2019		Year	Air Quality
Project Sponsor	Project Description	Cost	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Open	Status
Sheboygan County	Sheboygan County Non-Motorized Transportation Pilot Program Level of Effort for Program Oversight	PE ROW				0				0				0					2025	Exempt
	(Including Education and Outreach)	CONST				0				0				0	,					
	, , , , , , , , , , , , , , , , , , , ,	OTHER	100	0	0	100	50	0	0	50	50	0	0	50						
		TOTAL	100	0	0	100	50	0	0	50	50	0	0	50						
		TOTAL	100 NMTPP	0	0	100	50 NMTPP	0	0	50	50 NMTPP		0	50]					
TIP ID No.: 372-11-108			14,11111				1,1,1,1,1				TAMITI									
Sheboygan County and	Bicycle/Pedestrian Path on Taylor Drive					_				_									2025	Exempt
City of Sheboygan	(4996-01-58)	PE ROW				0				0										
		CONST	7,133	0	0	7,133	376	0	0	376	;									
		OTHER				0				0)									
		TOTAL	7,133 NMTPP	0	0	7,133	376 NMTPP	0	0	376)									
TIP ID No.: 372-08-112			14,11111				1,1,1,1,1													
Sheboygan County	NMTPP Marketing/Branding																		2025	Exempt
		PE ROW				0				0										
		CONST				0				0	,									
		OTHER	68	0	0	68	67	0	0	67	,									
										_										
		TOTAL	68 NMTPP	0	0	68	67 NMTPP	0	0	67										
TIP ID No.: 372-08-117			NWIIII				INIVITIT													
Sheboygan County	Planning Study for a Road Diet/																		2025	Exempt
	Multi-Use Cycle-Track Facility on Indiana Avenue from South 17th	PE ROW				0														
	Street in the City of Sheboygan to	CONST				0														
	Highland Drive in the Village of	OTHER	500	0	0	500														
	Kohler																			
	(2.74 mi.)	TOTAL	500 NMTPP	0	0	500														
TIP ID No.: 372-13-102			NWITE																	
Sheboygan County	Construction of a Bridge for Bicyclists																		2025	Exempt
	and Pedestrians over the Sheboygan	PE					64	0	0	64				0						
	River near the Former Tecumseh Engines Plant in the City of	ROW CONST								0	319	0	0	319	3					
	Sheboygan Falls	OTHER								0) 317	Ü	O	0						
		TOTAL					64	0	0	64		0	0	319)					
TIP ID No.: 372-11-104							NMTPP				NMTPP									
Sheboygan County	Construction of a Multi-Use Pathway	1																	2025	Exempt
	in the Alliant Energy Utility Corridor	PE	200	0	0	200	100	0	0	100)			0						_
	on the South Side of the City of Sheboygan	ROW CONST				0				0	2,900	0	0	2,900	3					
	(4996-22-00 and 4996-22-71)	OTHER				0				0	2,900	U	0	2,900 0	S					
	(2.51 mi.)					_				_										
		TOTAL	200	0	0	200		0	0	100	2,900	0	0	2,900)					
TIP ID No.: 372-11-105			NMTPP				NMTPP				NMTPP									
111 ID No.: 3/2-11-105		1	l .				l				L				1					

Table 5

Calendar Years 2016 - 2019: Bicycle and Pedestrian Transportation Projects

	Calendar Years 2016 - 2019: Bicycle and Pedestrian Transportation Projects (In Thousands of Dollar)																					
Primary Jurisdiction/		Type of		Jan D	Dec. 2016		Ì	Jan De	c. 2017			_	Jan D						- Dec. 2019		Year	Air Quality
Project Sponsor	Project Description	Cost	Federal	State	Local	Total	Federal	State	Local	Tota	ıl	Federal	State	Local	ıl	Total	Federal	State	Local	Total	Open	Status
Sheboygan County	Union Pacific Rail/Trail Conversion																				2025	Exempt
	Extension in the City of Sheboygan:	PE					126	0	0		126					0						
	Pennsylvania Avenue to Indiana	ROW									0					0						
	Avenue (Includes an Eastern	CONST									0	504	0		0	504						
	Extension to South 9th Street	OTHER									0					0						
	Paralleling Indiana Avenue)	mom . v					105				100	504				50.4						
		TOTAL					126 NMTPP	0	0		126	504 NMTPP	0		0	504						
TIP ID No.: 372-11-109							NMTPP					NMTPP										
Sheboygan County	Construction of Multi-Use Pathways																				NA	Exempt
Shebbygan County	on North Taylor Drive between	PE					36	0	0		36					0					1111	Exempt
	Kohler Memorial Drive and Superior	ROW						Ü	Ü		0					0						
	Avenue and from the Intersection of	CONST									0					ő						
	North Taylor Drive and North Avenue	OTHER									0	144	0		0	144						
	into Evergreen Park																					
	(1.20 mi.)	TOTAL					36	0	0		36	144	0		0	144						
(ILLUSTRATIVE PROJECT							NMTPP					NMTPP										
- NOT PROGRAMMED)																						
	СТН РР																				NA	Exempt
	Highland Drive to Taylor Drive	PE					225	0	0		225					0						•
	Conversion into Linear Parkway and	ROW									0					0						
	Trail Facility	CONST									0	2,900	0		0	2,900						
	(1.80 mi.)	OTHER									0					0						
		TOTAL					225	0	0		225	2,900	0		0	2,900						
(ILLUSTRATIVE PROJECT							NMTPP					NMTPP										
- NOT PROGRAMMED)	W :																				27.1	
Sheboygan County	Union Pacific Rail/Trail Conversion	DE					200				200										NA	Exempt
	Extension in the City of Sheboygan:	PE					300	0	0		300					0						
	Indiana Avenue to Mead Avenue	ROW									0	2.500	0		0	2.500						
		CONST									0	3,500	0		0	3,500						
		OTHER									U					U						
		TOTAL					300	0	0		300	3,500	0		0	3,500						
(ILLUSTRATIVE PROJECT		IOIAL					NMTPP	U	U		300	NMTPP	U		U	3,300						
- NOT PROGRAMMED)							NMIII					TAMITI										
Sheboygan County	Construction of a Bridge for Bicyclists																				NA	Exempt
, g,	and Pedestrians over the Sheboygan	PE					93	0	0		93					0						
	River near the Bemis Manufacturing	ROW						_			0					0						
	Plant in the City of Sheboygan Falls	CONST									0	463	0		0	463						
		OTHER									0					0						
		TOTAL					93	0	0		93	463	0		0	463						
(ILLUSTRATIVE PROJECT							NMTPP					NMTPP										
- NOT PROGRAMMED)																						

Table 5 Calendar Years 2016 - 2019: Bicycle and Pedestrian Transportation Projects

							(In T	Thousands of	Dollars)											
Primary Jurisdiction/		Type of		Jan D	ec. 2016			Jan De	c. 2017			Jan De	c. 2018			Jan D	ec. 2019		Year	Air Quality
Project Sponsor	Project Description	Cost	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Open	Status
Wisconsin Department	Enhancements																		2025	Exempt
of Transportation	Grouped Projects	PE	20	5	0	25	20	5	0	25	20	5	0	25	20	5	0	25		
		ROW				0				0				0				(
		CONST	120	30	0	150	120	30	0	150	120	30	0	150	120	30	0	150		
TIP ID Nos.: 372-13-101 (for		OTHER				0				0				0				(
2016 funding), 372-15-101																				
(for 2017 and 2018 funding)		TOTAL	140	35	0	175	140	35	0	175	140	35	0	175	140	35	0	175		
and 372-16-101 (for 2019			TA				TA				TA				TA					
funding)																				

NOTES: The following funding codes are used to identify federal funding sources:

NMTPP = Non-Motorized Transportation Pilot Program (Federal earmark in SAFETEA-LU awarded to Sheboygan County)

TA = Transportation Alternatives Program (Includes the former Transportation Enhancements, Safe Routes to School, and Recreational Trails programs in SAFETEA-LU).

2016 - 2019 Funding Summary:

Total WisDOT Approved Bicycle and Pedestrian Project Funding (all sources) = \$700,000 Total NMTPP Project Funding (all sources) = \$12,557,000

Source: Sheboygan County Planning and Conservation Department, 2015; Wisconsin Department of Transportation, 2015; and Bay-Lake Regional Planning Commission, 2015.

- Union Pacific rails-to-trails conversion extension between Indiana Avenue and Mead Avenue in the City of Sheboygan (\$300,000 for design in 2017, and \$3,500,000 for construction in 2018); and
- Construction of a bridge for bicyclists and pedestrians over the Sheboygan River near the Bemis Manufacturing plant in the City of Sheboygan Falls (\$93,000 for design in 2017, and \$463,000 for construction in 2018).

If funding becomes available, the 2016 - 2019 TIP may be amended to include one or more of these illustrative projects.

Street and Highway Improvement Projects

Table 6 describes those street and highway improvement projects which are scheduled for the 2016 - 2019 program period. A wide variety of street and highway improvements will take place over the 2016 - 2019 period, including:

- Four reconstruction projects with no increase in capacity (one of these projects also involves rail work);
- Two roundabout construction projects (one of these projects involves right-of-way acquisition);
- Three bridge replacement projects;
- One bridge rehabilitation project;
- One miscellaneous cable guard (cable barrier) project on Interstate Highway 43; and
- A multi-county sequencing and prioritization study for Interstate Highway 43 involving the Wisconsin Department of Transportation.

WisDOT "grouped" projects are also listed in Table 6 for 2016, 2017, 2018 and 2019 in the areas of: STP Safety; railroad/highway crossing safety; HSIP/Highway Safety Improvement Program; railroad crossing protective devices; Office of the Commissioner of Railroads (OCR) rail-highway safety; Interstate highway system preventive maintenance; National Highway System preventive maintenance; and STN connecting highway system preventive maintenance.

Of the 12 specific street and highway projects authorized in this 2016 – 2019 TIP:

- Four projects are scheduled for construction in 2016;
- One project is scheduled for construction in 2017;
- Three projects are scheduled for construction in 2018;
- Two projects are scheduled for construction in 2019. Of these, one project will involve right-of-way acquisition in 2017;
- One project will involve construction in both 2017 and 2018; and
- One project will involve completion of a study in 2016.

Map 1 indicates specific projects to be wholly or partially implemented in 2016 and 2017. Map 2 indicates specific projects to be wholly or partially implemented in 2018 and 2019.

Calendar Years 2016 - 2019: Street and Highway Improvement Projects (In Thousands of Dollars)

							(Ir	Thousands														
Primary Jurisdiction/		Type of		Jan De				Jan D					Dec. 20					ec. 2019			Year	Air Quality
Project Sponsor	Project Description	Cost	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Lo	ocal	Total	Federal	State	Loca	ıl .	Γotal	Open	Status
Wisconsin Department	STH 42/Calumet Drive																				2025	Exempt
of Transportation and	Main Avenue to North 26th Street	PE				0																
City of Sheboygan	Reconstruction with no Increase in	ROW				0																
	Capacity	CONST	2,668	640	496	3,804																
	(4630-05-21, 4630-05-71 and 4630-05-72)																					
	(0.40 mi.)	TOTAL	2,668	640	496	3,804																
	(Highway Preservation)		NHPP																			
TIP ID No.: 372-08-023																						
Wisconsin Department	STH 28																				2025	Exempt
of Transportation	Prange Road to South Taylor Drive	PE				0																
	Reconstruction with no Increase in	ROW				0																
	Capacity	CONST	148	4,494	0	4,642																
	(4640-05-00, 4640-05-21 and 4640-05-71)																					
	(0.39 mi.)	TOTAL	148	4,494	0	4,642																
	(Highway Preservation)		NHPP																			
TIP ID No.: 372-08-001	OFFIX 22																				2025	C
Wisconsin Department	STH 32	DE				0															2025	Exempt from
of Transportation	Intersection with Happy Lane	PE ROW				0																Regional
	(City of Sheboygan Falls)			1.700	0	1.700																Emissions
	Construction of a Roundabout	CONST	0	1,798	0	1,798																Analysis
	(4540-23-21 and 4540-23-71)	TOTAL		1.700	0	1.700																
	(0.02 mi.)	TOTAL	0	1,798	0	1,798																
TIP ID No.: 372-08-002	(Highway Safety)																					
City of Sheboygan	North Avenue																				2025	Exempt
City of Sheboygan	STH 42/Calumet Drive to North 15th	PE								0	,				0						2023	Exempt
	Street	ROW								0					0							
	Reconstruction with no Increase in	CONST					210	91	53)	0	1,139	2,959							
	Capacity and Rail Work	CONST					210	91	33	334	1,620	,	U	1,139	2,939							
	(4996-01-78, 4996-01-79, 4996-01-80 and	TOTAL					210	91	53	354	1,820)	0	1,139	2,959							
	4996-01-81)	IOIAL					URB	71	33	334	URB		Ü	1,137	2,737							
	(0.57 mi.)						CKD				CKE	,										
	(Highway Preservation)																					
TIP ID No.: 372-13-012	(Highway Freservation)																					
City of Sheboygan	Superior Avenue																				2025	Exempt
City of Bileboyguii	North Taylor Drive to North 29th Street	PE																		0	2025	Entimpt
	Reconstruction with no Increase in	ROW																		0		
	Capacity	CONST														612	0		383	995		
	(4996-01-72 and 4996-01-73)																					
	(0.30 mi.)	TOTAL														612	0		383	995		
	(Highway Preservation)															URB						
TIP ID No.: 372-13-013																						
Wisconsin Department	IH 43																				2025	Exempt
of Transportation	Ozaukee County Line to IH 41 in Brown	PE				0																-
	County	ROW				0																
	Sequencing and Prioritization Study	CONST	232	58	0	290																
	(1221-17-00)																					
	(81.06 mi.)	TOTAL	232	58	0	290																
	(Highway Preservation)		NHPP																			
TIP ID No.: 372-13-015			<u> </u>																			

Table 6

Calendar Years 2016 - 2019: Street and Highway Improvement Projects

							(Ir	Thousands	of Dollars)											
Primary Jurisdiction/		Type of		Jan De	ec. 2016			Jan De	ec. 2017			Jan De	c. 2018			Jan De	ec. 2019		Year	Air Quality
Project Sponsor	Project Description	Cost	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Open	Status
Wisconsin Department	STH 28																		2025	Exempt from
of Transportation	Intersection with CTH EE	PE								0								0		Regional
	Construction of a Roundabout	ROW					0	260	0	260								0		Emissions
	(4010-20-00, 4010-20-21 and 4010-20-71)	CONST								0					1,472	368	0	1,840		Analysis
	(0.10 mi.)																			
	(Highway Safety)	TOTAL					0	260	0	260					1,472	368	0	1,840		
TIP ID No.: 372-15-001															STP					
Town of Sheboygan Falls	Meadowlark Road																		2025	Exempt
	Sheboygan River Bridge and Approaches	PE												0						
	Bridge Replacement	ROW												0						
	(4200-05-00 and 4200-05-71)	CONST									394	0	98	492						
	(0.05 mi.)																			
	(Highway Preservation)	TOTAL									394	0	98	492						
TIP ID No.: 372-15-002											STP									
Town of Herman	Meadowlark Road																		2025	Exempt
	Fischer Creek Bridge and Approaches	PE								0	1									
	Bridge Replacement	ROW								0										
	(4201-04-00 and 4200-05-71)	CONST					120	0	30	150										
	(0.02 mi.)																			
	(Highway Preservation)	TOTAL					120	0	30	150										
TIP ID No.: 372-15-003	,						STP													
City of Sheboygan	South 8th Street																		2025	Exempt
,, 8	Sheboygan River Bridge	PE					0													
	Bridge Rehabilitation	ROW					0													
	(4996-19-00 and 4996-19-71)	CONST	217	0	54	1 27	1													
	(0.06 mi.)	001.01	217	Ü																
	(Highway Preservation)	TOTAL	217	0	54	1 27	1													
TIP ID No.: 372-15-004	(Inglima) Trosol varion)	101112	STP	Ü																
City of Sheboygan	South Business Drive																		2025	Exempt
,, 8	Railroad Overpass South of Washington	PE												0						
	Avenue	ROW												0						
	Bridge Replacement	CONST									1,678	0	420	2,098						
	(4996-21-00 and 4996-21-71)	001.01									1,070	· ·	.20	2,070						
	(0.06 mi.)	TOTAL									1,678	0	420	2,098						
	(Highway Preservation)	101112									STP	· ·	.20	2,070						
TIP ID No.: 372-15-005	(Highway Flosof varion)										511									
Wisconsin Department	IH 43																		2025	Exempt
of Transportation	Wilson Lima Road to Fischer Creek Road	PE												0					2023	Exempt
or transportation	Miscellaneous Cable Guard	ROW												0						
	(1223-17-00 and 1223-00-71)	CONST									1,323	147	0	1,470						
	(6.18 mi.)	CONST									1,323	147	Ü	1,470						
	(Highway Safety)	TOTAL									1,323	147	0	1,470						
TIP ID No.: 372-15-014	(Highway Salety)	IOIAL									HSIP	147	Ü	1,470						
Wisconsin Department	STP Safety Funds		 				+				11311								2025	Exempt
of Transportation	Grouped Projects	PE	16	4	() 20	16	4	0	20	16	4	0	20	16	4	0	20	2023	Exempt
or rransportation	(0.00 mi.)	ROW	10	4	·	, 2	5	4	U	20	10	4	U	20	10	4	U	20		
TIP ID Nos.: 372-13-002	(Highway Safety)	CONST	80	20	C) 10	80	20	0	100	80	20	0	100	80	20	0	100		
(for 2016), 372-15-006 (for	(Highway Saicty)	CONST	00	20	(, 10	00	20	U	100	00	20	U	100	80	20	U	100		
2017 and 2018), and		TOTAL	96	24	() 120	96	24	0	120	96	24	0	120	96	24	0	120		
		IOIAL	HSIP	24	(, 12		24	U	120	HSIP	24	U	120		24	U	120		
372-16-001 (for 2019)			HSIP				HSIP				HSIP				HSIP					

Table 6 Calendar Years 2016 - 2019: Street and Highway Improvement Projects
(In Thousands of Dollars)

Profession Pro								(In	Thousands												
Second Part Plant	Primary Jurisdiction/		Type of			ec. 2016			Jan De	ec. 2017				ec. 2018				ec. 2019		Year	Air Quality
Temperation Congress Fig. Congress Fig. Congress Con	Project Sponsor		Cost	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Open	Status
Fig. 10 10 10 10 10 10 10 10	Wisconsin Department	Rail/Highway Crossing Safety Projects																		2025	Exempt
PT Note: 371-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	of Transportation	Grouped Projects	PE				0				0				0)			0		
Windows Months		(0.00 mi.)	ROW				0				0				0)			0		
17 and 1988, and	TIP ID Nos.: 372-13-003	(Highway Safety)	CONST	120	30	0	150	120	30	0	150	120	30	0	150	120	30	0	150		
Part	(for 2016), 372-15-007 (for																				
Statistication of programment Statistication Statis	2017 and 2018), and		TOTAL	120	30	0	150	120	30	0	150	120	30	0	150	120	30	0	150		
Trungertation Program Fig. 16 4 0 20 16 4 0 20 16 4 0 20 16 4 0 20 16 4 0 20 16 4 0 20 16 18 18 18 18 18 18 18	372-16-002 (for 2019)			RHGC				RHGC				RHGC				RHGC					
Compail Projects Compail Pro	Wisconsin Department	HSIP/Highway Safety Improvement																		2025	Exempt
PLD None, 372-1-54-08 Count of Public None, 172-1-1-6-003 (fire of the Commissioner of Railbrook State) Fig. 1.5	of Transportation	Program	PE	16	4	0	20	16	4	0	20	16	4	0	20	16	4	0	20		
Table Tabl		Grouped Projects	ROW				0				0				0	1			0		
171 and 2018). and	TIP ID Nos.: 372-13-004	(0.00 mi.)	CONST	80	20	0	100	80	20	0	100	80	20	0	100	80	20	0	100		
17 and 2018), and	(for 2016), 372-15-008 (for	(Highway Safety)																			
Part	2017 and 2018), and	-	TOTAL	96	24	0	120	96	24	0	120	96	24	0	120	96	24	0	120		
Transportation Grouped Projects PE	372-16-003 (for 2019)			HSIP				HSIP				HSIP				HSIP					
Common C	Wisconsin Department	Railroad Crossing Protective Devices																		2025	Exempt
Part	of Transportation	Grouped Projects	PE				0				0				0	1			0		
or 2016, 772-15-099 (for 17) and 2018), and 72-16-004 (for 2019) Office of the Commissioner of Railroads (COCR) Rail-Highway Safety Projects (ROW) FID Nos.: 372-13-006 (0 00 mi) (17) and 2018, and 18) and 18 (18) and 18	•	(0.00 mi.)	ROW				0				0				0	1			0		
or 2016, 372-15-009 (for 171 and 2018), and 172 and 2018, and 172	TIP ID Nos.: 372-13-005	(Highway Safety)	CONST	120	30	0	150	120	30	0	150	120	30	0	150	120	30	0	150		
Part	(for 2016), 372-15-009 (for																				
Fire of the Commissioner Railroads (OCR) Rail-Highway Safety Projects (GORD Rail-Highway Safety Projects (Highway Safety) PE	2017 and 2018), and		TOTAL	120	30	0	150	120	30	0	150	120	30	0	150	120	30	0	150		
Ralifording COR) Rail-Highway Safety Projects PE CORD C	372-16-004 (for 2019)			STP				STP				STP				STP					
Grouped Projects ROW CONST 120 30 0 150 120 120 30 0 150 120 120 120 120 120 120 120 120 120 12	Office of the Commissioner	Office of the Commissioner of Railroads																		2025	Exempt
PID Nos.: 372-13-006 0.00 mi.) CONST 120 30 0 150 120	of Railroads	(OCR) Rail-Highway Safety Projects	PE				0				0				0	1			0		
TOTAL 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 30 0 150 120 120 120 30 0 150 120 120 120 30 0 150 120 120 30 0 150 120 120 120 30 0 150 120 120 30 0 120		Grouped Projects	ROW				0				0				0	1			0		
17 and 2018), and	TIP ID Nos.: 372-13-006	(0.00 mi.)	CONST	120	30	0	150	120	30	0	150	120	30	0	150	120	30	0	150		
RHGC	(for 2016), 372-15-010 (for	(Highway Safety)																			
Transportation Preventive Maintenance Projects PE	2017 and 2018), and		TOTAL	120	30	0	150	120	30	0	150	120	30	0	150	120	30	0	150		
Preventive Maintenance Projects PE	372-16-005 (for 2019)			RHGC				RHGC				RHGC				RHGC					
Grouped Projects ROW CONST 160 40 0 200 160 40 100 100 100 100 100 100 100 100 100	Wisconsin Department	Interstate Highway System																		2025	Exempt
Grouped Projects ROW CONST 160 40 0 200 160 40 100 100 100 100 100 100 100 100 100	of Transportation	Preventive Maintenance Projects	PE				0				0				0)			0		•
PID Nos.: 372-13-007 (0.00 mi.) (CONST 160 40 0 200 160 40 200 160 40 200 160 40 200 160 40 40 200 160 40 40 40 40 40 40 40	1		ROW				0				0				0)			0		
or 2016), 372-15-011 (for D17 and 2018), and TOTAL	TIP ID Nos.: 372-13-007	-	CONST	160	40	0	200	160	40	0	200	160	40	0	200	160	40	0	200		
TOTAL 160 40 0 200 160 40 160 40 200 160 40 200 160 40 160 40 40 40 40 40 40 40 40 40 40 40 40 40	(for 2016), 372-15-011 (for	` '																			
Care	2017 and 2018), and	, and and a	TOTAL	160	40	0	200	160	40	0	200	160	40	0	200	160	40	0	200		
Second Department National Highway System Preventive Maintenance Projects PE	372-16-006 (for 2019)																				
Preventive Maintenance Projects PE	Wisconsin Department	National Highway System																		2025	Exempt
Grouped Projects ROW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	of Transportation	~	PE				0				0				0				0		
IP ID Nos.: 372-13-008 or 2016), 372-15-012 (for D) TOTAL 400 100 0 500 400 400 400 400 400 400 400 400		· ·		1			0				0				0				0		
or 2016), 372-15-012 (for highway Preservation) TOTAL 400 100 0 500 400 100 0 500 400 100 0 500 400 100 0 500	TIP ID Nos.: 372-13-008	1 0		400	100	0	500	400	100	0	500	400	100	0	500	400	100	0	500		
017 and 2018), and TOTAL 400 100 0 500 400 100 0 500 400 100 0 500 400 100 0 500	(for 2016), 372-15-012 (for				- 30		500	.50	- 30		300	.50	200	Ü	500			Ü	200		
	2017 and 2018), and		TOTAL	400	100	0	500	400	100	0	500	400	100	0	500	400	100	0	500		
	372-16-007 (for 2019)																				

Table 6 Calendar Years 2016 - 2019: Street and Highway Improvement Projects (In Thousands of Dollars)

							(In	Thousands	of Dollars)											
Primary Jurisdiction/		Type of		Jan D	ec. 2016			Jan De	ec. 2017			Jan De	ec. 2018			Jan D	ec. 2019		Year	Air Quality
Project Sponsor	Project Description	Cost	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Federal	State	Local	Total	Open	Status
Wisconsin Department	STN Connecting Highway System																		2025	Exempt
of Transportation	Preventive Maintenance Projects	PE				0				0				0				0		
	Grouped Projects	ROW				0				0				0)			0		
TIP ID Nos.: 372-13-009	(0.00 mi.)	CONST	400	0	100	500	400	0	100	500	400	0	100	500	400	0	100	500		
(for 2016), 372-15-013 (for	(Highway Preservation)																			
2017 and 2018), and		TOTAL	400	0	100	500	400	0	100	500	400	0	100	500	400	0	100	500		
372-16-008 (for 2019)			NHPP				NHPP				NHPP				NHPP					

NOTES: The following funding codes are used to identify Federal funding sources:

HSIP = Highway Safety Improvement Program

NHPP = National Highway Performance Program (includes the former National Highway System, Interstate Maintenance, and Bridge Replacement and Rehabilitation programs (on the Enhanced National Highway System) in SAFETEA-LU.

RHGC = Rail-Highway Grade Crossing Program

STP = Surface Transportation Program (includes the Surface Transportation Program in SAFETEA-LU, plus the former Bridge Replacement and Rehabilitation program (off the Enhanced National Highway System) in SAFETEA-LU).

URB = Surface Transportation Program - Urban

2016 - 2019 Funding Summary:

Total Highway Preservation Project Funding = \$20,855,000

Total Highway Safety Project Funding = \$8,128,000

Total Highway Improvement Project Funding = \$0

Total Highway Expansion Project Funding = \$0

Source: Wisconsin Department of Transportation, 2015; City of Sheboygan, 2015; and Bay-Lake Regional Planning Commission, 2015.

In addition to specific street and highway improvement projects, approval of this 2016 – 2019 TIP also implies approval of several Wisconsin Department of Transportation "grouped" projects (which are of a region-level scope) when they occur in the Sheboygan Metropolitan Planning Area. These "grouped" projects are classified in the following categories: (1) traffic safety; (2) the statewide highway safety improvement program (HSIP); (3) regional railroad crossing projects; (4) region-wide hazardous waste; (5) wetland mitigation bank; (6) state highway rehabilitation; (7) pavement marking; (8) traffic operations; and (9) maintenance resurfacing. These projects involve only Federal and state transportation funds, involve work on the state trunk highway system, and are expected to involve minimal funding levels within the Sheboygan Metropolitan Planning Area.

FINANCIAL PLAN FOR THIS TRANSPORTATION IMPROVEMENT PROGRAM

An addition to Transportation Improvement Programs and TIP Amendments resulting from Federal surface transportation in recent years, including the "Moving Ahead for Progress in the 21st Century (MAP-21) act, is a financial plan which documents that funding is available to meet expenditures for projects receiving Federal funding throughout the period covered by a TIP or TIP Amendment.

Table 7 discusses available Federal funding for the 2016 - 2019 TIP in thousands of dollars, and demonstrates the ability of available funding sources to implement the projects programmed in the TIP. Programmed expenditures in the TIP have been compared to the funding estimated to be available. Included in Table 7 are Federal highway and Federal transit funding sources. In the event of the over-programming of funds, the MPO advisory committees will work to resolve the discrepancy; this may involve the use of alternative Federal and/or state funding sources.

Table 7 reflects an annual inflation factor of 2.3 percent for programmed expenditures and an estimated inflation factor of 1.0 percent for available funding in nearly all highway and transit programs; exceptions include the Transportation Alternatives program (TA), as well as the Congestion Mitigation and Air Quality improvement program (CMAQ), where funding was not inflated at all. Most inflation factors used in this financial plan were based on guidance from staff of the WisDOT Bureau of Planning and Economic Development that was issued to Wisconsin MPOs in the development of their financial plans for their long-range transportation plans and TIPs in September of 2015; the Sheboygan Parking and Transit Utility consulted with the MPO on transit-related inflation factors.

Table 7 indicates that the following street and highway and bicycle and pedestrian project categories in the 2016 - 2019 TIP are adequately funded when taken as a whole for the program period:

- National Highway Performance Program (NHPP), including what were National
 Highway System and Interstate Maintenance funding sources under SAFETEA-LU, and
 also funding bridge improvements on the National Highway System. Three regular
 NHPP projects and three categories of WisDOT "grouped" NHPP projects are funded in
 Table 6.
- Surface Transportation Program (STP), including projects that were originally included under the STP funding category in SAFETEA-LU, as well as any bridge improvements off the National Highway System. Five regular STP projects and one category of WisDOT "grouped" STP projects are funded in Table 6.

	Table 7 Programmed and Available Federal Funding for the 2016 - 2019 TIP	and Availat	Table 7	7 Junding for	the 2016 -	2019 TIP					
"Н	Bunding Source	u)	(In Thousands of Dollars) Programmed Expen	Drogrammed Expenditures	diturec			Fetimate	Estimated Available Funding	Runding	
Agency	Program	2016	2017	2018	2019	Total	2016	2017	2018	2019	Total
Federal Highway Administration	National Highway Performance Program (NHPP)	4,008	982	1,005	1,028	7,023					
	Surface Transportation Program (STP)	337	246	2,294	1,704	4,581					
	Surface Transportation Program - Urban (URB)	0	215	1,905	655	2,775					
	Highway Safety Improvement Program (HSIP)	192	196	1,585	206	2,179					
	Rail-Highway Grade Crossing (RHGC)	240	246	251	257	994					
	Transportation Alternatives (TA)	140	140	140	140	260					
	Non-Motorized Transportation Pilot Program (NMTPP)	8,001	801	3,949	0	12,751					
	Total	12,918	2,825	11,129	3,990	17,551	22,968	15,898	19,037	15,416	73,318
Federal Transit Administration	Section 5304	0	0	0	0	0	0	0	0	0	0
	Section 5307 - Sheboygan Urbanized Area - Operating Expenses	1,205	1,217	1,229	1,242	4,893	1,205	1,217	1,229	1,242	4,893
	Section 5307 - Sheboygan Urbanized Area - Capital Expenses	0	0	0	0	0	0	0	0	0	0
	Section 5339	324	363	0	0	687	169	171	173	174	289
	Congestion Mitigation and Air Quality Improvement Program (CMAQ)	0	720	720	0	1,440	389	390	389	390	1,558
	Section 5310	0	116	0	0	116	0	116	0	0	116
1	Total	1,529	2,416	1,949	1,242	7,136	1,763	1,894	1,791	1,806	7,254

NOTES:

(1) Totals may not be completely consistent with the sum of individual cell entries due to rounding error.

With the exception of Transportation Alternatives (TA), all highway- and enhancement-related programmed expenditures were adjusted to reflect an annual inflation rate of 1.0 percent. TA funds were not adjusted to percent, while all highway- and enhancement-related estimated available funding was adjusted to reflect an annual inflation rate of 1.0 percent. TA funds were not adjusted to reflect inflation. These adjustments were made per WisDOT guidance updated in September 2015. 6

Total transit operating expenses were adjusted to reflect an annual inflation rate of 1.0 percent. These adjustments were made through consultation with staff from the Sheboygan Parking and Transit Utility (Shoreline Metro). 3

expenditure estimated available funding was adjusted to reflect an annual inflation rate of 1.0 percent. CMAQ funds were not adjusted to reflect inflation. These adjustments were With the exception of CMAQ, all transit capital programmed expenditures were adjusted to reflect an annual inflation rate of 2.3 percent, while all transit capital programmed made per WisDOT guidance updated in September 2015, as well as through consultation with staff from the Sheboygan Parking and Transit Utility (Shoreline Metro). 4

Source: Bay-Lake Regional Planning Commission, 2015.

- Surface Transportation Program Urban (URB): Two regular URB projects are funded in Table 6.
- Highway Safety Improvement Program (HSIP): One regular HSIP project and two categories of WisDOT "grouped" HSIP projects are funded in Table 6.
- Rail-Highway Grade Crossing Program (RHGC): Two categories of WisDOT "grouped" RHGC projects are funded in Table 6.
- Transportation Alternatives Program (TA): One category of WisDOT "grouped" TA projects is funded in Table 5.
- Sheboygan County Non-Motorized Transportation Pilot Program (NMTPP): Seven NMTPP projects are funded in Table 5.

As far as transit is concerned:

- It is likely that Shoreline Metro will apply for FTA Section 5304 funding to complete a transit development program (TDP) for its operation. If the Wisconsin Department of Transportation approves this funding, Table 2 will be amended to include this project.
- Section 5307 transit operational funds will be available in stable amounts for the regular operations of Shoreline Metro over the program period, as noted in Table 1.
- Based on recent trends, and when taken as a whole, transit capital funding should be available to finance one fixed-route bus replacement in 2016, as well as one fixed-route bus replacement in 2017 (Table 2), although the local share for these bus replacements may be slightly higher than has been the case for past bus replacements. Six other capital items are listed as illustrative projects in Table 2. Section 5339 FTA funding will be the primary Federal funding source for transit capital items at Shoreline Metro and at other small urbanized transit operations in Wisconsin. In the event that Section 5339 funding is not available, Section 5307 FTA funding will be the Federal funding source for most transit capital items.
- Congestion Mitigation and Air Quality Improvement Program (CMAQ) funding should be available to finance two fixed-route bus replacements in 2017, as well as two fixed-route bus replacements in 2018 in Table 2.
- Section 5310 funding will be available to fund two medium sized buses for the Sheboygan County Health and Human Services Department that will be operated by Shoreline Metro for transportation of the elderly and persons with disabilities. All other projects listed in Table 4 are illustrative at this time, and the TIP will be amended if funding materializes for one or more of the elderly and disabled transportation capital projects listed in Table 4.

Any costs associated with providing street operations and maintenance (O & M) activities are funded entirely by the local operating budgets of the various jurisdictions within the Sheboygan Metropolitan Planning Area. These O & M funds are completely separate from the capital improvement funds provided for in this TIP, and do not affect the cost estimates and corresponding fiscal constraints shown in this document.

PUBLIC PARTICIPATION PROCESS

In 2012, the Bay-Lake Regional Planning Commission updated its Public Participation Plan for all transportation plans and programs developed for the Sheboygan MPO. The following narrative outlines the public involvement process used in the development of this 2016 - 2019 *TIP* for the Sheboygan Metropolitan Planning Area.

The Bay-Lake Regional Planning Commission published a Notice of Request for Comment on the draft 2016 – 2019 Transportation Improvement Program for the Sheboygan Metropolitan Planning Area in a local newspaper as well as through social media. This notice informed the public of the availability of draft copies of the TIP at key locations in the Sheboygan Metropolitan Planning Area, and solicited public input on the draft TIP. This Notice of Request for Comment was also mailed to individuals and organizations on the MPO Public Participation Plan mailing list. This Notice of Request for Comment listed approximate and actual dates of all significant meetings and hearings concerning the TIP, and included a public hearing announcement. Draft copies of the TIP were made available (at five public review locations in the Sheboygan area as well as on the Sheboygan MPO webpage linked to the Bay-Lake Regional Planning Commission website) for a period of 30 days. A public hearing on the draft TIP was held during this review period.

Comments received on the draft TIP were forwarded to the MPO Technical and Policy Advisory Committees for their consideration. Following the public hearing, the MPO Technical and Policy Advisory Committees reviewed the draft TIP and public input, and made their recommendation to the Bay-Lake Regional Planning Commission. Comments received at the public hearing, written comments received during the public comment period and the recommendation from the MPO Technical and Policy Advisory Committees were then forwarded to the Bay-Lake Regional Planning Commission for its consideration.

The following was a schedule of events for public involvement in the development of the 2016 - 2019 TIP:

November 11, 2015

Notice of Request for Public Comment on the draft 2016 – 2019 TIP published in a local newspaper, sent to other local media and publicized via social media. Significant meetings and hearings concerning the TIP were listed in the notice, including notice of the public hearing concerning the TIP. Draft TIP made available for public review at five locations in the Sheboygan Metropolitan Planning Area and on the MPO webpage of the Bay-Lake Regional Planning Commission website.

November 11, 2015

Notice of Request for Public Comment on the draft 2016 – 2019 TIP was made available to

individuals and organizations on the MPO Public Participation Plan mailing list.

November 11, 2015 Draft TIP made available for public review

through December 10, 2015.

December 2, 2015 Public Hearing on the 2016 – 2019 TIP.

December 10, 2015 Technical and Policy Advisory Committees

considered public comments and made a recommendation to the Bay-Lake Regional

Planning Commission.

December 11, 2015 Bay-Lake Regional Planning Commission

meeting: Consideration of written comments, comments from the public hearing and recommendation of the MPO Technical and Policy Advisory Committees, and

Commission action on the final TIP.

Week of December 14 - 18, 2015 Formal transmittal of the final TIP to applicable state and Federal agencies.

The public hearing concerning the 2016 – 2019 TIP commenced at 4:00 p.m. on December 2, 2015, at the Sheboygan County Administration Building (Room 302), 508 New York Avenue, Sheboygan. One individual was in attendance at the public hearing: Tom Wegner, Vice Chairperson of the Sheboygan County Board and a member of the Sheboygan MPO Policy Advisory Committee. Jeffrey Agee-Aguayo represented the Bay-Lake Regional Planning Commission at the public hearing.

Jeffrey Agee-Aguayo had a presentation available that focused on the draft TIP. However, given that there was one person in attendance and the fact that that individual was already familiar with the MPO process, the public hearing took more of a question and answer and discussion format. The one meeting attendee was given a packet of tables from the main body of the TIP that was reviewed. Several large display maps were available in the public hearing room; these maps showed the location of proposed street and highway projects in the TIP, the location of street and highway projects completed in 2015 in the previous TIP, and the environmental justice impacts of street and highway and bicycle and pedestrian transportation projects in the draft TIP as well as of the current Shoreline Metro route structure.

No substantive issues or comments were raised at the public hearing.

The public hearing concerning the 2016 - 2019 TIP officially concluded at 5:00 p.m.

Written comments were received from Edward Procek, Sheboygan County Board Supervisor (District 7) and Bay-Lake Regional Planning Commissioner. Mr. Procek discussed the need for expanded transit service (both in terms of hours as well as area served) in the Sheboygan metropolitan planning area and elsewhere in Sheboygan County, along with the need to replace

several older buses and other vehicles at Shoreline Metro. Mr. Procek also discussed the need to have adequate financing at the state and local levels in order to improve roads and other infrastructure in the Sheboygan metropolitan planning area. Mr. Procek expressed hope that a "wheel tax" in the City of Sheboygan as well as an "infrastructure sales tax" that may be authorized by the state legislature may help to improve the condition of streets and highways in the area in the near future.

IMPLEMENTATION STATUS OF PROJECTS RECOMMENDED FOR 2015 IN THE SHEBOYGAN METROPOLITAN PLANNING AREA TIP

Several projects have been completed in the Sheboygan Metropolitan Planning Area since the TIP process began. Street and highway projects recommended for 2015 in the 2015 - 2018 TIP (adopted in December 2014, and amended once thereafter) which were completed by the end of 2015 are identified on Map 3. Table 8 includes a summary of the progress made on transit operations and capital items, elderly and disabled transportation operations and capital items, bicycle and pedestrian transportation projects, and street and highway improvement projects which were scheduled for 2015 in the 2015 - 2018 TIP. Table 8 identifies projects scheduled in the 2015 - 2018 TIP for 2015, and includes information such as project location, jurisdiction, project description, and project status.

AIR QUALITY CONFORMITY STATEMENT

The air quality conformity statement for this 2016 - 2019 TIP can be found in Appendix C. The conformity statement has been prepared for both the TIP and for the Year 2045 Sheboygan Area Transportation Plan (SATP). The Year 2045 SATP (and this 2016 - 2019 TIP which implements that plan) demonstrates conformity against a SIP in which USEPA found motor vehicle emission budgets adequate for Sheboygan County; emission budgets in the SIP were developed using the MOVES 2014 emissions estimating model, and the conformity analysis found in Appendix C utilized emission factors produced by MOVES 2014 to demonstrate conformity against the SIP. This conformity analysis was prepared to demonstrate conformity for all of Sheboygan County, since the county has been designated a nonattainment area for the eight-hour standard for ground-level ozone for several years.

STATEMENT OF IMPACTS OF TIP PROJECTS ON ENVIRONMENTAL JUSTICE

Taken as a whole, the projects in this Transportation Improvement Program, together with the other publicly and privately funded transportation improvements and services provided in the Sheboygan Metropolitan Planning Area, do not impose disproportionately high and adverse impacts on minority populations and/or low income populations. Furthermore, the benefits of the transportation improvements and services provided are reasonably distributed to serve the needs of all populations in the area. These statements are based on the analysis summarized in Appendix E of this 2016 - 2019 TIP.

Trong	Implementation Status of P	able 8 rojects Recommended for 2015	
Project Location	Jurisdiction	r the Sheboygan Metropolitan Planning Area Project Description	Project Status
STH 42/Calumet Drive Main Avenue to North 26th Street	Wisconsin Department of Transportation and City of Sheboygan	Right-of-Way Acquisition Leading to Reconstruction with no Increase in Capacity	Right-of-Way Acquisition in Progress through August 2016; Programmed for Late 2016; Construction Scheduled for 2017
STH 28/North 14th Street Sheboygan River Bridge	Wisconsin Department of Transportation and City of Sheboygan	Bridge Deck Replacement	Completed
STH 28 Prange Road to South Taylor Drive	Wisconsin Department of Transportation	Reconstruction with no Increase in Capacity	Construction to be Completed in 2016
STH 23 Plymouth to Sheboygan Falls	Wisconsin Department of Transportation	Installation of Fencing	Construction Scheduled for 2016
CTH A Intersection with CTH EE	Wisconsin Department of Transportation and Sheboygan County	Construction of a Roundabout	Completed
North Avenue STH 42/Calumet Drive to North 15th Street	City of Sheboygan	Design Leading to Reconstruction with no Increase in Capacity and Rail Work	Design in Progress Through 2018
Superior Avenue North Taylor Drive to North 29th Street	City of Sheboygan	Design Leading to Reconstruction with no Increase in Capacity	Design in Progress Through 2018
IH 43 Ozaukee County Line to IH 41 in Brown County	Wisconsin Department of Transportation	Sequencing and Prioritization Study	Study in Progress Through 2016
Meadowlark Road Sheboygan River Bridge and Approaches	Town of Sheboygan Falls	Design Leading to Bridge Replacement	Design in Progress Through 2017
Meadowlark Road Fischer Creek Bridge and Approaches	Town of Herman	Design Leading to Bridge Replacement	Design in Progress Through 2017
South 8th Street Sheboygan River Bridge	City of Sheboygan	Design Leading to Bridge Rehabilitation	Design in Progress Through 2016
South Business Drive Railroad Overpass South of Washington Avenue	City of Sheboygan	Design Leading to Bridge Replacement	Design in Progress Through 2017
IH 43 Wilson Lima Road to Fischer Creek Road	Wisconsin Department of Transportation	Design Leading to Installation of Miscellaneous Cable Guard	Completed; Construction Scheduled for 2019
Various Locations in the Sheboygan Metropolitan Planning Area	Wisconsin Department of Transportation	Grouped Projects in the Sheboygan Metropolitan Planning Area	Completed
Sheboygan County NMTPP	Sheboygan County	Level of Effort for Program Oversight (Including Education and Outreach)	Completed, but Work Extended Through 2018
Taylor Drive between Crocker Avenue and just north of Erie Avenue/Taylor Park	Sheboygan County and City of Sheboygan	Bicycle/Pedestrian Path	Construction to be Completed in 2016 and 2017
Various Locations in the City of Sheboygan	City of Sheboygan	Sidewalk Gap Filling	Completed

		Table 8 Projects Recommended for 2015	
Transpor		for the Sheboygan Metropolitan Planning Area	
Project Location	Jurisdiction	Project Description	Project Status
nroughout the Sheboygan Metropolitan Planning Area and Sheboygan County	eboygan County	NMTPP Marketing and Branding	To be Completed in 2016 and 2017
diana Avenue Sh South Taylor Drive to South 17th Street	eboygan County	Planning Study for a Road Diet/Multi-Use Cycle-Track Facility	To be Completed in 2016; Study Termini Changed to South 17th Street in the City of Sheboygan to Highland Drive in the Village of Kohler
ver the Sheboygan River near the Former Tecumseh Engines Plant in the City of Sheboygan Falls	eboygan County	Design Leading to Construction of a Bridge for Bicyclists and Pedestrians	Preliminary Engineering to be Completed in 2017; Construction to be Completed in 2018
lliant Energy Utility Corridor on the South Side of the City of Sheboygan	eboygan County	Design Leading to Construction of a Multi-Use Pathway	Preliminary Engineering to be Completed in 2016 and 2017; Construction to be Completed in 2018
orth Taylor Drive between Kohler Memorial Drive and Superior Avenue and from the Intersection of North Taylor Drive and North Avenue into Evergreen Park	eboygan County	Design Leading to Construction of Multi-Use Pathways	Project Dropped; Listed as an Illustrative Project in the 2016 - 2019 TIP
nion Pacific Railroad Line Pennsylvania Avenue to Indiana Avenue (Includes an Eastern Extension to South 9th Street Paralleling Indiana Avenue)	eboygan County	Design Leading to Rail to Trail Conversion/ Extension	Preliminary Engineering to be Completed in 2017; Construction to be Completed in 2018
	eboygan Parking and Transit ility	Operation of Shoreline Metro	Completed
neboygan County Sh	eboygan County	Volunteer Driver Program	Completed
neboygan County Sh	eboygan County	Purchase of Specialized Transportation Services from the City of Sheboygan Parking and Transit Utility	Completed
ource: Bay-Lake Regional Planning Commission,	2015.		

EXPEDITED PROJECT SELECTION PROCEDURES

Federal regulations acknowledge that changes occur as TIP projects advance through the project development process. The regulations include some flexibility that MPOs may choose to implement to manage TIP amendment workload. The *WisDOT TIP Preparation Guidance* includes historic boilerplate language regarding these flexibilities that Wisconsin MPOs have included in their TIPs. FHWA reviewed the boilerplate language, and found some inconsistencies with current regulations. If MPOs choose to include permitted flexibility in implementing the TIP, then FHWA recommends that the TIP include the following specific section with commitment to the procedures outlined. If an MPO chooses not to include specific flexibilities, then the MPO should coordinate with WisDOT and FHWA to ensure that adopted expedited selection procedures remain compliant.

The Bay-Lake Regional Planning Commission/Sheboygan MPO, WisDOT, and the Sheboygan Parking and Transit Utility/Shoreline Metro hereby agree to the following procedures in advancing projects from the approved TIP for Federal funding commitment:

- 1. The first year of the TIP constitutes an agreed to list of projects for project selection purposes and no further project selection action is required by the MPO for WisDOT or the transit operator to proceed with Federal funding commitment.
- Projects from the second, third or fourth year of the TIP can be advanced by WisDOT or the transit operator for Federal fund commitment without further project selection action by the MPO.
- 3. Concerning the Federal funding sources identified for individual projects in the TIP, it is agreed that WisDOT may unilaterally interchange eligible FHWA funding program sources without necessitating an amendment, subject to the project selection authority that Federal regulations and state local program procedures reserve for the State and the MPO, and subject to reconciliation under Item #5.
- 4. WisDOT can unilaterally interchange FTA Section 5309, Section 5339 and Section 5307 capital funds in urbanized areas between 50,000 and 200,000 population without necessitating a STIP or TIP amendment. FTA should be notified of any interchange of funds.
- 5. To maintain accountability and fiscal constraint as changes occur during implementation of the TIP, the MPO, WisDOT and the transit operator will monitor projects in the TIP and account for all significant changes in scheduled years and costs in a TIP amendment at the midpoint of the calendar year. (MPOs on a two year TIP update cycle must also commit to "truing up" the TIP by amendment at the end of the first year along with declaring the second year of the TIP to be the agreed to list of projects for the second year of operation).
- 6. WisDOT relies on the public involvement process conducted by the MPO in the development of its TIP to satisfy the FTA program and planning requirements, as established for the Section 5309, Section 5339 and Section 5307 programs.

TIP AMENDMENT GUIDELINES

Major Amendments

A major TIP amendment will be necessary when:

- Adding a non-exempt/expansion project to the first four years of the *TIP*, including advancing a project for implementation from an illustrative list or from the out year(s) of the *TIP**:
- Moving a non-exempt/expansion project out of the first four years of the TIP*;
- Significantly changing the scope (character of work or project limits) of a nonexempt/expansion project within the first four years of the *TIP* such that the current description is no longer reasonably accurate*; or
- Adding or deleting any project that exceeds the lesser of 10 percent of the total original Federal funding programmed for the calendar year, or \$1,000,000 (within the first four years of the *TIP*).

*For purposes of air quality conformity analysis, "non-exempt" projects are projects that change or modify capacity on the transportation network. Examples of "non-exempt" projects in the Sheboygan area might include adding or deleting lanes on an existing arterial or collector facility, building a new arterial or collector facility, or adding a new interchange to a freeway. Generally, most other projects are considered "exempt" projects for purposes of air quality conformity analysis. Additional information concerning these definitions can be found in the USEPA conformity regulation (40 CFR 93), specifically in Tables 2 and 3 of the regulation. This detailed information is available from MPO staff at the Bay-Lake Regional Planning Commission office.

A major amendment will require the following steps:

- Staff will commence the major amendment process by releasing the proposed amendment for a 30-day public review period. Staff will inform the public of the proposed major amendment by placing the proposed major amendment and public review period announcement on the Sheboygan MPO webpage of the Bay-Lake Regional Planning Commission website, by sending notices to the organizations on the MPO Public Participation Plan mailing list and by publishing a notice in one or more local newspapers. The notices will be distributed just before the 30-day review period begins. Public notice will also be provided through social media, including the Bay-Lake Regional Planning Commission Facebook page and (more briefly) through Twitter.
- Near the end of the 30-day public review process, staff will conduct a public hearing on the major *TIP* amendment at an accessible location that can be reached by Shoreline Metro. The public hearing notice will also be sent to the organizations on the *MPO Public Participation Plan* mailing list and to local news media. MPO staff will consider holding the public hearing immediately before meetings of the Sheboygan MPO Technical and Policy Advisory Committees in order to conserve staff time and resources.
- Following the public hearing, the Sheboygan MPO Technical and Policy Advisory

Committees will have the opportunity to comment on the proposed major *TIP* amendment and make a recommendation to the Bay-Lake Regional Planning Commission.

• Staff will present the proposed major amendment to the Bay-Lake Regional Planning Commission (or its Executive Committee) for final approval.

Minor Amendments

A minor TIP amendment will be necessary when:

- Adding an exempt/system preservation project to the first four years of the *TIP*, including advancement of a project for implementation from an illustrative list or from the out year(s) of the *TIP*;
- Moving an exempt/system preservation project out of the first four years of the *TIP*;
- Changing the scope (character of work or project limits) of an exempt/system preservation project within the first four years of the *TIP* such that the current description is no longer reasonably accurate; or
- A change in project funding that impacts funding for other projects within the first four years of the *TIP*, forcing any exempt/system preservation project out of the first four years of the *TIP*.

A minor amendment will require the following steps:

- The Sheboygan MPO Technical and Policy Advisory Committees will have the opportunity to comment on the proposed minor *TIP* amendment and make a recommendation to the Bay-Lake Regional Planning Commission; this will include a public comment period toward the beginning of the joint meeting of those committees.
- Staff will present the proposed minor amendment to the Bay-Lake Regional Planning Commission (or its Executive Committee) for final approval.

Administrative Modifications

The *TIP* can be administratively modified by staff without going through the amendment process under the following circumstances:

- Changing the implementation schedule for projects within the first four years of the *TIP*:
- Changes in scope (character of work or project limits) while remaining reasonably consistent with the approved project; or
- Changing the source (Federal, state or local funding source); category (National Highway Performance Program, Surface Transportation Program, earmarks, etc.); or amount of funding for a project without changing the scope or work or schedule for the project or any other project within the first four years of the *TIP*.

In addition, projects approved for Emergency Relief funding are not generally required to be included in the TIP. Therefore, any changes made for emergency relief projects may be considered administrative modifications to the TIP.

Street and Highway Improvement Projects: 2016-2017

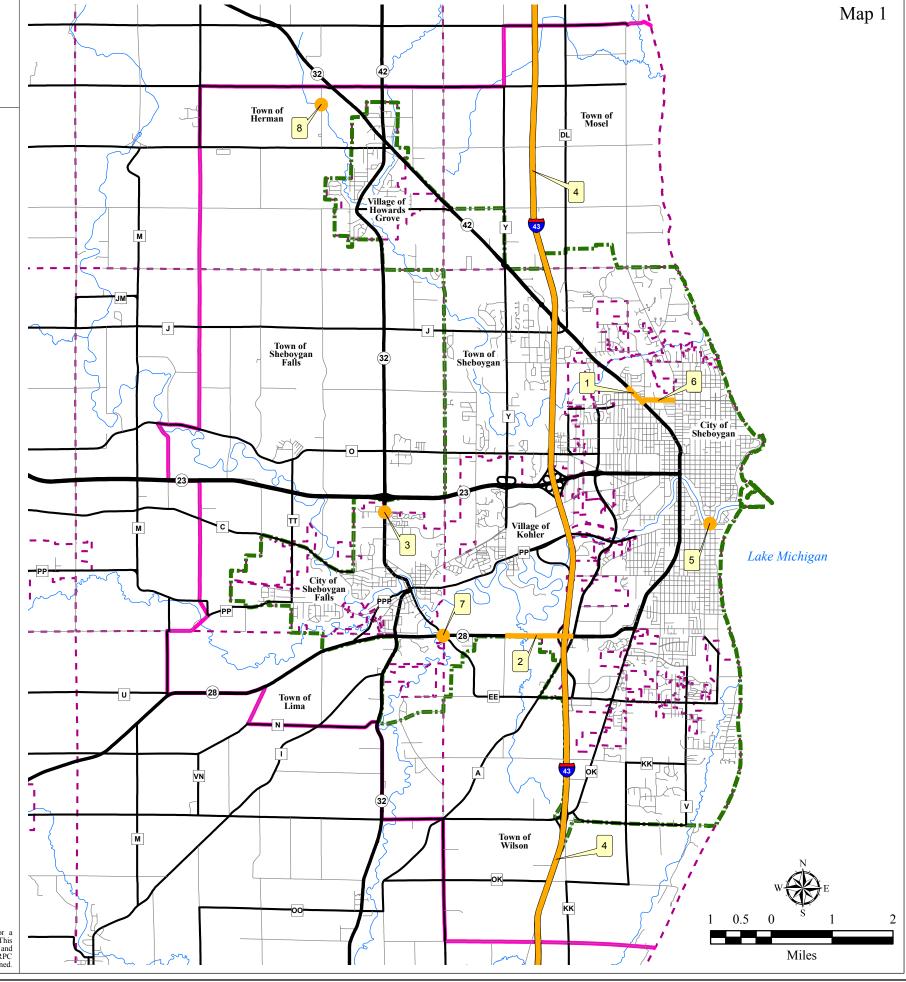
Sheboygan Metropolitan Planning Area Sheboygan County, Wisconsin

2016

- STH 42/Calumet Drive
 Main Avenue to North 26th Street
 Reconstruction with no Increase in Capacity
- STH 28
 Prange Road to South Taylor Drive
 Reconstruction with no Increase in Capacity
- 3. STH 32 Intersection with Happy Lane Construction of a Roundabout
- 4. IH 43
 Ozaukee County Line to IH 41 in Brown County
 Sequencing and Prioritization Study
- 5. South 8th Street Sheboygan River Bridge Bridge Rehabilitation

2017

- 6. North Avenue STH 42/Calumet Drive to North 15th Street Reconstruction with no Increase in Capacity and Rail Work (Begins in 2017 and Ends in 2018)
- 7. STH 28
 Intersection with CTH EE
 Right-of-Way Acquisition Leading to Construction
 of a Roundabout in 2019
- 8. Meadowlark Road Fischer Creek Bridge and Approaches Bridge Replacement



Sheboygan Urbanized Area Boundary
Sheboygan Metropolitan Planning Area Boundary

December, 2015 G:\Sheboygan\MPO\TIP\TIP 2016-2019 Source: WDNR; Sheboygan County, 2015; Bay-Lake Regional Planning Commission, 2015.

This map is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only. Bay-Lake RPC is not responsible for any inaccuracies herein contained.

Street and Highway Improvement Projects: 2018-2019

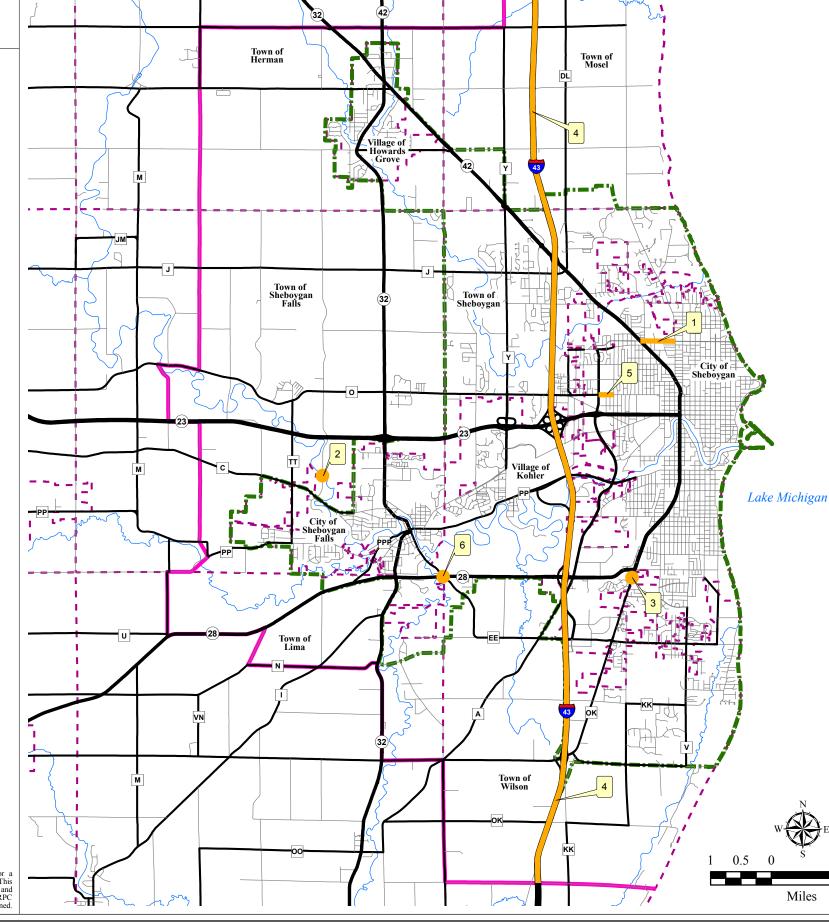
Sheboygan Metropolitan Planning Area Sheboygan County, Wisconsin

2018

- North Avenue STH 42/Calumet Drive to North 15th Street Reconstruction with no Increase in Capacity and Rail Work (Begins in 2017 and Ends in 2018)
- Meadowlark Road
 Sheboygan River Bridge and Approaches
 Bridge Replacement
- 3. South Business Drive Railroad Overpass South of Washington Avenue Bridge Replacement
- IH 43
 Wilson Lima Road to Fischer Creek Road Miscellaneous Cable Guard

2019

- 5. Superior Avenue North Taylor Drive to North 29th Street Reconstruction with no Increase in Capacity
- 6. STH 28
 Intersection with CTH EE
 Construction of a Roundabout



Map 2

Sheboygan Urbanized Area Boundary
Sheboygan Metropolitan Planning Area Boundary

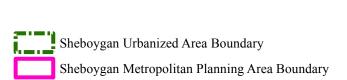
December, 2015 G:\Sheboygan\MPO\TIP\TIP 2016-2019 Source: WDNR; Sheboygan County, 2015; Bay-Lake Regional Planning Commission, 2015.

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Street and Highway Improvement Projects Completed in 2015

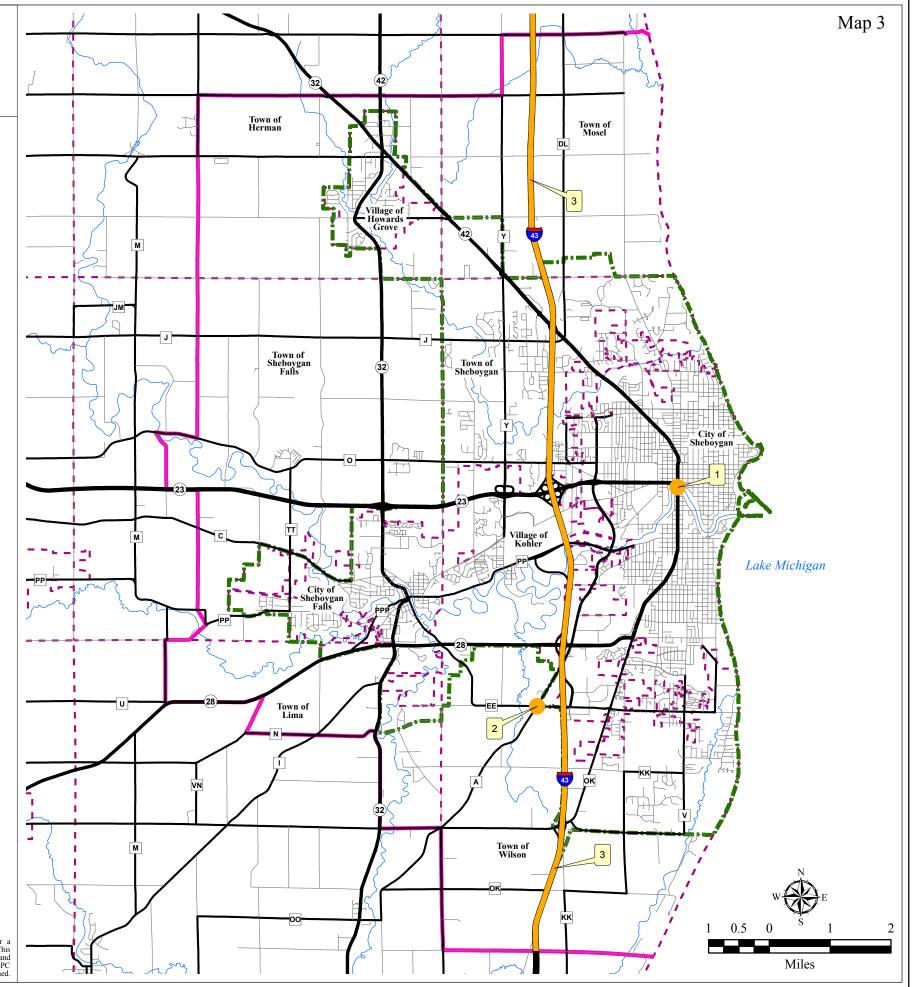
Completed in 2015
Sheboygan Metropolitan Planning Area
Sheboygan County, Wisconsin

- STH 28/North 14th Street Sheboygan River Bridge Bridge Deck Replacement
- CTH A
 Intersection with CTH EE
 Construction of a Roundabout
- 3. IH 43
 Wilson Lima Road to Fischer Creek Road
 Design Leading to Installation of Miscellaneous Cable Guard



December, 2015 G:\Sheboygan\MPO\TIP\TIP 2016-2019 Source: WDNR; Sheboygan County, 2015; Bay-Lake Regional Planning Commission, 2015.

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APPENDIX A GLOSSARY OF TERMS

Glossary of Terms

ACQUI - Acquisition

ADA - Americans with Disabilities Act of 1990

CAAA - Clean Air Act Amendments of 1990

CMAQ - Congestion Mitigation and Air Quality Improvement Program is the Federal funding source.

CONST - Construction

CTH - County Trunk Highway

FHWA - Federal Highway Administration

FTA - Federal Transit Administration

HSIP - Highway Safety Improvement Program is the Federal funding source.

IH - Interstate Highway

MAP-21 - The "Moving Ahead for Progress in the 21st Century" Act (Federal surface transportation authorization legislation

approved and signed into law in 2012)

MPO - Metropolitan Planning Organization

NAAQS - National Ambient Air Quality Standards

NHPP - National Highway Performance Program is the Federal funding source; this includes the former National Highway System, Interstate Maintenance, and Bridge Replacement and Rehabilitation programs (on the Enhanced National

Highway System) that were in SAFETEA-LU.

NMTPP - Non-Motorized Transportation Pilot Program is the Federal funding source; this was an earmark for Sheboygan County

in SAFETEA-LU

NOx - Oxides of Nitrogen

PE - Preliminary Engineering

RHGC - Rail-Highway Grade Crossing Program is the Federal funding source

ROW - Right-of-Way Acquisition

RU - Surface Transportation Program - Rural is the Federal funding source

SAFETEA-LU - Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (adopted in 2005, and

expired on September 30, 2012)

STH - State Trunk Highway

STP - Surface Transportation Program is the Federal funding source; this includes the Surface Transportation Program in

SAFETEA-LU, plus the former Bridge Replacement and Rehabilitation program (off the Enhanced National Highway

System) that was in SAFETEA-LU.

TA - Transportation Alternatives Program is the Federal funding source; this includes the former Transportation

Enhancements, Safe Routes to School and Recreational Trails programs that were in SAFETEA-LU.

TIP - Transportation Improvement Program

URB - Surface Transportation Program - Urban is the Federal funding source

VOC - Volatile Organic Compounds

WisDOT - Wisconsin Department of Transportation

APPENDIX B PROCEDURES FOR THE INVOLVEMENT OF PRIVATE ENTERPRISE IN TRANSIT PROGRAMS

Procedures for the Involvement of Private Enterprise in Transit Programs

In conformance with the FTA policy statements on private sector participation as published in the *Federal Registers* of October 22, 1984, and January 24, 1986, the following narrative is documentation of the Bay-Lake Regional Planning Commission's privatization efforts as Metropolitan Planning Organization for the Sheboygan Metropolitan Planning Area in Wisconsin.

1. The Sheboygan Metropolitan Planning Area Technical and Policy Advisory Committees are responsible for reviewing the major transportation plans and programs funded by the FTA and the FHWA. This includes review of projects selected for inclusion in the annual TIP or TIP Amendment for the Sheboygan Metropolitan Planning Area.

The Technical Advisory Committee is composed of local planning technicians and representatives of the Wisconsin Department of Transportation, the FHWA and the FTA. Membership on the Policy Advisory Committee is comprised of the chief elected officials from the local units of government within the metropolitan planning area. Private sector transportation providers receive notice of all meetings of both committees, and are invited to participate in these meetings, but do not sit as voting members of either committee.

- 2. An inventory of proprietary and private, non-profit providers of transportation services in the area is maintained and updated as necessary. This inventory includes existing school bus, commuter, charter, and intercity carriers as well as taxi and specialized (elderly/disabled) service providers.
- 3. All private enterprises included in the above inventory have been placed on the notification lists for development of the Bay-Lake Regional Planning Commission's annual transportation planning work program and for review of the transit portions of the draft TIP or TIP Amendment. In addition, agency personnel who may be aware of private providers not in our inventory will be added to the notification list.

Private providers have been invited to ask questions and provide comments on the planning and programming of projects. In addition, new and/or restructured transit service proposed in the TIP or TIP Amendment will be specifically enumerated in the review notice for that particular TIP or TIP Amendment. Private operators will be requested to notify the Bay-Lake Regional Planning Commission if they have any interest in receiving more information on the services or would like to be considered for providing one or more of the services.

With the notification, private providers are provided with the transit projects included in the <u>draft</u> Section 5307/5339 Program of Projects prepared by the Sheboygan Parking and Transit Utility (Shoreline Metro), as well as the list of Section 5310 applications.

- 4. The service requirements for new or expanded services being considered in the planning process will be specified and made available to private operators. Private proposals will be evaluated according to criteria which consider ability to provide the service and cost. Fully allocated costs will be the basis for comparison between public and private operators.
- 5. The Bay-Lake Regional Planning Commission is the designated clearinghouse for federally funded projects. While private operators have been included on the project notification list for transit projects in the past, a greater effort has been made to include all private operators

- in the review process. This will provide private operators with a greater opportunity to comment on Federal as well as state and local transportation projects.
- 6. Traditionally, the Bay-Lake Regional Planning Commission has provided technical assistance primarily to local public bodies and public agencies. This will be extended to private operators who request information or assistance with projects related to the transit planning program, as a part of the Commission's role in the coordination of the Technical and Policy Advisory Committees of the Sheboygan Metropolitan Planning Organization.

APPENDIX C AIR QUALITY CONFORMITY STATEMENT

APPENDIX C: ASSESSMENT OF CONFORMITY OF THE YEAR 2045 SHEBOYGAN AREA TRANSPORTATION PLAN (SATP) AND THE 2016 – 2019 SHEBOYGAN METROPOLITAN PLANNING AREA TRANSPORTATION IMPROVEMENT PROGRAM (TIP) WITH RESPECT TO THE STATE OF WISCONSIN AIR QUALITY IMPLEMENTATION PLAN

INTRODUCTION

This report demonstrates the conformity of this *Year 2045 Sheboygan Area Transportation Plan* (SATP) and the 2016 – 2019 Sheboygan Metropolitan Planning Area Transportation Improvement Program (TIP) with respect to each of the five criteria established by the U.S. Environmental Protection Agency for such conformity assessment.

On May 21, 2012, USEPA designated Sheboygan County a marginal nonattainment area for ground-level ozone under the 2008 eight-hour standard for that pollutant. The effective date for that designation was July 20, 2012. Sheboygan County also remains a moderate nonattainment area for the 1997 eight-hour ozone standard. The intent of this conformity assessment is to demonstrate conformity of the *Year 2045 SATP* and the *2016 – 2019 TIP* under the 2008 eight-hour standard.

In September 2009, the Wisconsin Department of Natural Resources prepared an "8-Hour Ozone Redesignation Request and Maintenance Plan for the Sheboygan County Subpart-2 Moderate Nonattainment Area," which was submitted to USEPA. Several other Wisconsin counties were included in this redesignation request, including Manitowoc and Door counties, as well as six counties in southeastern Wisconsin. On April 26, 2010, USEPA published in the *Federal Register* that it had determined that the motor vehicle emissions budgets in this State Implementation Plan (SIP) element were adequate for transportation conformity determinations; this finding took effect on May 21, 2010.

The "8-Hour Ozone Redesignation Request and Maintenance Plan" was approved for all counties except Sheboygan County (in addition, the eastern portion of Kenosha County was included in the Chicago multistate nonattainment area). Unfortunately, Sheboygan County continued to have high ozone readings at its monitor near Lake Michigan, which kept the county in nonattainment.

In 2014, the Wisconsin Department of Natural Resources prepared the latest SIP element applicable to Sheboygan County. This document was titled *The State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas: A CAA-required State Implementation Plan addressing the 2008 8-Hour Ozone National Ambient Air Quality Standard.* A public hearing on this SIP element was held in December 2014, and the public comment period on this SIP element ran through mid January of 2015. This SIP element was submitted to USEPA for adequacy review in early 2015, and the USEPA determined the emissions budgets to be adequate in April 2015.

Recognizing that ozone concentrations are a problem that primarily impacts the Lake Michigan shoreline, the Wisconsin Department of Natural Resources has been working with local officials and with the USEPA to attempt to decrease the size of the nonattainment area from the entire

county to eastern Sheboygan County. On June 27, 2013, the Wisconsin Department of Natural Resources asked USEPA Region 5 to adjust the Sheboygan County nonattainment boundary to a narrow strip of land adjacent to Lake Michigan. The Wisconsin Department of Natural Resources supplemented this boundary refinement request with technical information on January 22, 2014. The State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas includes smaller emission budgets for a proposed smaller nonattainment area in eastern Sheboygan County in the event that such a redesignation were to take place. The Wisconsin Department of Natural Resources also has placed a temporary air monitor between Sheboygan and Howards Grove to attempt to measure the effect that proximity to Lake Michigan has on ozone levels in warm weather. It is unclear if or when USEPA will act on this proposal.

This conformity assessment involves a comparison of forecast mobile sector emissions from the Year 2045 SATP and its implementing 2016 – 2019 TIP to emissions budgets in the State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas. MOVES 2014 was used to compute forecasted emissions for this conformity analysis.

The five criteria established in the July 1, 2004, *Federal Register* (40 CFR Part 93, Subpart A), as applicable to the Sheboygan County ozone nonattainment area under the eight-hour standard, are (1) use of the most recent planning assumptions; (2) use of the latest emissions estimating model; (3) interagency and public consultation; (4) timely implementation of transportation control measures (TCMs); and (5) consistency with the motor vehicle emissions budgets for volatile organic compounds and for nitrogen oxides established in the *State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas*. Amendments made to the conformity rule that were published in the *Federal Register* on March 24, 2010, and on March 14, 2012, did not impact the five basic criteria used to demonstrate conformity.

USE OF THE MOST RECENT PLANNING ASSUMPTIONS

This criterion (40 CFR 93.110) specifies that the conformity assessment must be based upon the official and most current planning assumptions, including current and future population levels, households, employment levels, travel demand, traffic volumes and transit ridership.

The Bay-Lake Regional Planning Commission is the gubernatorially designated metropolitan planning organization (MPO) for the Sheboygan Urbanized Area in Wisconsin, and also prepares sewer service area plans for eastern Sheboygan County. The Bay-Lake Regional Planning Commission has also developed comprehensive plans for communities in Sheboygan County. As the MPO for the Sheboygan Urbanized Area, the Bay-Lake Regional Planning Commission is responsible for the preparation of current population, household, employment, and travel and traffic forecasts. The Bay-Lake Regional Planning Commission and the Wisconsin Department of Transportation jointly maintain the travel and traffic simulation models which are used in Sheboygan County for transportation planning and for air quality conformity analysis; these models were expanded to include all of Sheboygan County in recent years for a more transparent air quality conformity analysis and so that capacity modifying projects in rural Sheboygan County could be modeled and analyzed. The estimates, forecasts and models used in this conformity analysis are the same as those used by the Bay-Lake Regional Planning Commission in its other planning efforts in Sheboygan County, and are consistent with planning assumptions made by other state agencies for Sheboygan County and for the Sheboygan metropolitan

planning area.

The determination of conformity of the *Year 2045 SATP* and the *2016 – 2019 TIP* requires specific travel and emission forecasts for the years 2015, 2025, 2035 and 2045. The population, household and employment data for the years 2015, 2025 and 2035 have been projected by interpolation at the traffic analysis zone (TAZ) level between the existing 2010 level and the year 2045 forecasts for Sheboygan County based upon the adopted growth scenario for the Sheboygan metropolitan planning area. The 2010 existing level and 2045 forecasts for population, households and employment are identified in Table C.1, along with the interpolated 2015, 2025 and 2035 population, household and employment levels.

During the preparation of the *Year 2045 SATP*, the implications of a range of different future development scenarios for the Sheboygan metropolitan planning area were explored, including the effects of the scenarios on growth in vehicle miles of travel (VMT). The growth scenarios which were considered in plan development included (1) continuation of existing trends (the selected growth scenario on which the *Year 2045 SATP* is based); (2) compact/infill development; and (3) corridor development. VMT was minimized under the compact/infill development scenario, but members of the Sheboygan MPO Technical and Policy Advisory Committees believed that continuation of existing trends would more realistically occur in the metropolitan planning area in the long-range future. Further analysis indicates that transportation improvements are expected to have little impact on VMT, accounting for VMT changes of small fractions of a percent for all milestone years of analysis when compared to the baseline scenario.

Table C.1: Current and Forecast Population, Household and Employment Levels for Sheboygan County: *Year 2045 SATP* and the *2016 – 2019 TIP*

	EXISTING	ESTIMATE			
CHARACTERISTIC	2010	2015	2025	2035	2045
POPULATION	115,507	115,915	123,400	126,830	125,897
HOUSEHOLDS	46,390	47,633	52,016	54,838	55,048
EMPLOYMENT	59,824	62,144	67,058	72,360	78,081

Source: U.S. Bureau of the Census, 2010; Wisconsin Department of Administration, Demographic Services Center, 2013 and 2014; SRF Consulting Group, 2012, 2013 and 2014; and Bay-Lake Regional Planning Commission, 2014.

The determination of conformity utilizes the travel demand forecast model developed cooperatively by the Wisconsin Department of Transportation, its consultant (SRF Consulting Group) and the affected MPOs (East Central Wisconsin Regional Planning Commission as the MPO for the Appleton/Fox Cities, Oshkosh and Fond du Lac urbanized areas, Brown County Planning Commission as the MPO for the Green Bay urbanized area, and Bay-Lake Regional Planning Commission as the MPO for the Sheboygan urbanized area) during the period between June 2011 and December 2013, and utilized in the preparation of the *Year 2045 SATP*. This model was handed over to WisDOT in December of 2013, and WisDOT and the affected MPOs have continued to refine the model since then. The travel demand forecast model was calibrated to simulate year 2010 conditions using data from the National Household Travel Survey (NHTS) applicable to northeastern Wisconsin, as well as using data from the WisDOT traffic count program in Sheboygan County in 2008 and in 2011. The models were validated for the year 2010 by applying the models with 2010 Census data and 2010 transportation network data, and comparing model travel demand estimates to estimates derived from actual traffic counts. Travel demand estimates for 2010 were well within acceptable root mean square error (RMSE) figures

for all traffic count ranges. Modeling was updated using the socioeconomic data indicated in Table C.1 (with a new base year of 2010) in the fall of 2014.

The WisDOT Northeast Region travel demand forecast model links the urban models for the Green Bay, Appleton, Oshkosh, Fond du Lac and Sheboygan metropolitan planning areas, and includes many of the East Central Wisconsin and Bay-Lake Regional Planning Commission counties (in the case of the Bay-Lake Regional Planning Commission, the portion of the region from southern Oconto County to the south is covered). While there are few direct benefits to Sheboygan County through this regional modeling approach (the entire county was already covered by a model), one conformity-related benefit is that Manitowoc, Kewaunee and Door counties are included in this modeling domain, making future conformity analyses easier to accomplish in those counties.

Specific Changes to Modeling Assumptions Since Adoption of the Original Year 2035 SATP

Several revisions to the travel demand forecast model have been made since the original *Year 2035 SATP* was adopted in October of 2006. These revisions are incorporated into the updated travel demand forecast model for Sheboygan County.

Changes to Existing Infrastructure

- North 7th Street from Pennsylvania Avenue to Erie Avenue was converted from a one-way street to a two-way street.
- North 9th Street from Erie Avenue to Pennsylvania Avenue was converted from a one-way street to a two-way street.
- Various capacity improvements at and near the Interstate Highway 43/State Highway 28 interchange.
- County Highway O/Superior Avenue from North Taylor Drive to Woodland Road was reconstructed to two lanes plus a center turning lane.
- County Highway OK from County Highway EE/Weeden Creek Road to Camelot Boulevard was reconstructed to two lanes plus a center turning lane.
- A new "event only" half interchange at Interstate Highway 43 and Rowe Road was constructed.

Capacity Modifying Projects and Their Implementation Period in the *Year 2045 SATP*These are noted in Chapter 7 of the *Year 2045 SATP* (pages 7-1 through 7-3), including Table 7.1

Although outside the Sheboygan metropolitan planning area, reconstruction of State Highway 23 from Plymouth to Fond du Lac from two to four lanes continues to be incorporated into the travel demand forecast model for implementation by **2025**.

Roundabouts

Several new roundabouts have been implemented or are planned for implementation in the near future. While these cannot be incorporated into the existing travel demand forecast model, the roundabouts are important from an air quality conformity standpoint. Roundabouts have been or will be implemented at the following locations in the Sheboygan metropolitan planning area:

• Intersection of State Highways 28 and 32 (completed);

- Interstate Highway 43/State Highway 42 Interchange (2 roundabouts completed);
- Intersection of State Highway 42 and Vanguard Drive (completed);
- Intersection of State Highway 42 and County Highway Y (completed);
- Intersection of State Highway 42 and County Highway JJ (completed);
- Intersection of County Highway O/Superior Avenue, North 40th Street and Wilgus Avenue (completed);
- Intersection of County Highway OK/South Business Drive and County Highway EE/Weeden Creek Road (completed);
- Intersection of County Highways A and EE/Weeden Creek Road (construction scheduled for 2015);
- Intersection of State Highway 32 and Happy Lane (construction scheduled for 2016);
- Intersection of State Highway 28 and County Highway EE (construction scheduled for 2019);
- Intersection of County Highways A and PP (planned project for 2016 2025); and
- Intersection of County Highways C and TT (planned project for 2016 2025).

Transit Network Changes

Changes to service levels at Shoreline Metro are incorporated into this analysis, as recommended in the *Sheboygan Transit Development Program (TDP): 2012 – 2016*. Overall general service changes included discontinuation of the final hour of transit service on weekday evenings, as well as reinstatement of the North and South Shuttles throughout the service day on Saturdays. Revisions to all routes were also made in the *Sheboygan TDP: 2012 – 2016*; highlights of route-specific service changes included elimination of Route 1 North and its combination with Route 5 North, as well as division of transit service on the west side of Sheboygan into two routes (Routes 10 North and South). Since adoption of the *Sheboygan TDP: 2012 – 2016*, Shoreline Metro has added a seasonal (summer) route (Route 40) that circulates around attractions in Sheboygan's Harbor Centre district, and has also modified Route 20 (the Kohler/Sheboygan Falls Route) to better serve residents of those two communities. One new fare policy in 2011 involved institution of a \$3 day pass. No additional service, route or fare changes are anticipated at this time. Ridership has increased significantly in recent years, possibly due to some of these policies. A new TDP for Shoreline Metro is expected to be completed in 2017.

Congestion Mitigation and Air Quality Improvement Program (CMAQ) Projects

One CMAQ project was included in the emissions analysis. This project involves the rails to trails conversion of the Union Pacific (UP) rail corridor in the central portion of the City of Sheboygan. This is known as the Shoreline 400 Rail-Trail Project, and it was completed in 2013. Sheboygan County was the sponsor of this project.

Sheboygan County Non-Motorized Transportation Pilot Program (NMTPP) Projects

Several bicycle and pedestrian transportation projects have been completed through the Sheboygan County NMTPP in recent years; these are discussed in Chapter 5 of the *Year 2045 SATP*, and their implementation is assumed in this conformity analysis. Upcoming NMTPP

funded bicycle and pedestrian transportation projects are also identified in Chapters 5 and 7 of the *Year 2045 SATP* as well as in the *2016 – 2019 TIP*, and implementation of these projects is also assumed in this conformity analysis. The Sheboygan County NMTPP program was a special earmark awarded to the county in SAFETEA-LU for the construction of nonmotorized transportation facilities; three other jurisdictions in the United States received a similar earmark in SAFETEA-LU.

USE OF THE LATEST EMISSIONS ESTIMATION MODEL

A second criterion for the plan and program conformity determination as set forth in the July 1, 2004, *Federal Register* (40 CFR 93.111) requires use of the latest air pollutant emissions estimation model. Accordingly, this determination of conformity utilizes the latest emissions estimation model available, the USEPA MOVES 2014 air pollutant emissions estimation model. This emissions estimation model is the latest version of the model used by the Wisconsin Department of Natural Resources Bureau of Air Management in its development of the transportation conformity budgets for volatile organic compounds (VOCs) and nitrogen oxides (NOx) included in the latest SIP revision for Sheboygan County, the *State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas*.

The assumptions in the emissions estimation model for the years 2015, 2025, 2035 and 2045 are available from the Wisconsin Department of Natural Resources Bureau of Air Management; contact information and some of the assumptions can be found at the end of this report. The vehicle type mix assumptions are based on the Wisconsin Department of Transportation traffic monitoring program, which also is the basis for Highway Performance Monitoring System (HPMS) traffic count data. This emissions estimation model is the same model used by the State of Wisconsin Department of Natural Resources in the preparation of the State Implementation Plan for Air Quality to assure complete consistency between this conformity determination and the State Implementation Plan. Unlike previous conformity analyses, MOVES 2014 was able to directly compute projected emissions for each analysis year, meaning that the traditional multiplication of emission factors and vehicle miles of travel (VMT) by facility type and speed range was no longer a necessary step in the conformity analysis process.

INTERAGENCY AND PUBLIC CONSULTATION

A third criterion for plan and program conformity determination established in the July 1, 2014, Federal Register (40 CFR Part 93.112) relates to interagency and public consultation. The development of this Year 2045 SATP involved extensive interagency and public consultation, including, specifically, such consultations with respect to air quality impacts and the implications for conformity of the plan. In particular, the State of Wisconsin Department of Transportation, the State of Wisconsin Department of Natural Resources, the Federal Highway Administration, the Federal Transit Administration, the U.S. Environmental Protection Agency, Sheboygan County, and local units of government in the Sheboygan metropolitan planning area were all extensively involved in the development of the recommended plan, the consideration of the financial resources necessary to implement the recommended plan, and the evaluation of the potential air quality impacts of the recommended plan, in particular with respect to conformity to the State Implementation Plan. These Federal, State, county and local units and agencies of government also have been consulted, and have, as members of the Sheboygan MPO Technical and Policy Advisory Committees guiding the preparation of the Year 2045 SATP, reviewed and approved the travel simulation models utilized in the preparation of the Year 2045 SATP and

conformity analysis and as well the level of detail of the Year 2045 SATP.

The *Year 2045 SATP* incorporates the entire functionally classified arterial and collector street and highway network of the Sheboygan metropolitan planning area, including both urban and rural facilities. As noted earlier, the travel demand forecast modeling analysis used to develop the *Year 2045 SATP* was expanded to include all of Sheboygan County in recent years for a more transparent air quality conformity analysis and so that capacity modifying projects in rural Sheboygan County could be modeled and analyzed.

For the conformity analysis for the *Year 2045 SATP* and its implementing 2016 – 2019 TIP, the State of Wisconsin Department of Natural Resources provided Bay-Lake Regional Planning Commission staff with MOVES 2014 output based on vehicle miles of travel and average speed data provided by the Bay-Lake Regional Planning Commission on March 12 and 13, 2015. (These data are presented in Tables C.3 and C.4). The other MOVES 2014 modeling assumptions are the same as those used in the *State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas* (as it applies to Sheboygan County), which includes an updated vehicle age distribution and benefits of the vehicle inspection and maintenance program. The Bay-Lake Regional Planning Commission then performed the conformity analysis based on the MOVES 2014 output in April of 2015. The Transportation Conformity Work Group (TCWG) reviewed this draft conformity analysis in April and May of 2015.

In addition, there was public consultation with respect to the *Year 2045 SATP*, including consultation on land use, transportation deficiencies, potential transportation improvements, the recommended plan and its financial impacts, and on the potential air quality impacts of the recommended plan. This consultation is documented in Appendix F (Public Participation Process) of the *Year 2045 SATP*. Public consultation efforts included an extensive focus on transit in the *Sheboygan Transit Development Program (TDP): 2012 – 2016* (including numerous review committee meetings, extensive transit survey research and public information meetings), as well as responding to corridor test ideas with the travel demand forecast model.

The Year 2045 SATP and the 2016 – 2019 TIP were each subjected to 30 day public comment periods. A public hearing on the Year 2045 SATP was held in May of 2015. A public hearing on the 2016 – 2019 TIP was held in early December of 2015. Comments received on the Year 2045 SATP and on this air quality conformity statement were primarily editorial in nature, and have been incorporated into the respective documents. One comment received on the Year 2045 SATP suggested adding one system preservation project to the plan; this project may be added as an amendment to the plan in the future. Comments received on the 2016 – 2019 TIP discussed the need for additional state and local funding for street, highway and transit projects.

All meetings of the Sheboygan MPO Technical and Policy Advisory Committees, of any special project specific committees, and of the Bay-Lake Regional Planning Commission and its committees have been open to the public during the planning process, and notice of these meetings has been provided to area news media on a timely basis. Periodic electronic newsletters and annual reports of the Bay-Lake Regional Planning Commission have also kept the public informed of this and other MPO planning efforts.

TIMELY IMPLEMENTATION OF TRANSPORTATION CONTROL MEASURES (TCM)

A fourth criterion for plan and program conformity determination in the July 1, 2004, *Federal Register* (40 CFR Part 93.113[b] and [c]) is that the transportation plan and the transportation improvement program must provide for timely implementation of all transportation control measures (TCMs) listed in the State Implementation Plan for Air Quality. More specifically, the transportation plan and the transportation improvement program must provide for timely completion of any TCMs listed in the State Implementation Plan, and nothing in the transportation plan or transportation improvement program may interfere with the implementation of any TCM listed in the State Implementation Plan. The staff of the Wisconsin Department of Natural Resources Bureau of Air Management has indicated to Bay-Lake Regional Planning Commission staff that there are no TCMs specified for Sheboygan County in the State Implementation Plan, including the Sheboygan metropolitan planning area. Therefore, this criterion for plan and program conformity determination is not applicable to this planning effort at this time.

CONSISTENCY WITH THE MOTOR VEHICLE EMISSIONS BUDGETS IN THE STATE OF WISCONSIN'S 2015 TRANSPORTATION CONFORMITY BUDGETS FOR THE KENOSHA AND SHEBOYGAN COUNTY 2008 8-HOUR OZONE NONATTAINMENT AREAS

The fifth and final criterion for plan and program conformity determination, established in the July 1, 2004, Federal Register (40 CFR Part 93.118), requires that the transportation system emissions forecasts under the transportation plan and the transportation improvement program be consistent with, that is equal to or less than, the transportation system emission forecasts, or "motor vehicle emissions budgets," in the State Implementation Plan component for Sheboygan County. The State Implementation Plan for this conformity analysis is the "State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas: A CAA-required State Implementation Plan addressing the 2008 8-Hour Ozone National Ambient Air Quality Standard" submitted to the U.S. Environmental Protection Agency (USEPA) by the Wisconsin Department of Natural Resources in January 2015. The motor vehicle emissions budgets from this plan were found adequate for transportation conformity purposes in April of 2015. The plan presents motor vehicle emissions budgets for 2015 as part of the required "State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas." This requirement for consistency of the transportation emissions forecasts incorporated in the long-range transportation plan and the transportation improvement program with those incorporated in the "State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas" applies to volatile organic compounds and nitrogen oxide emissions as precursors to ozone.

Table C.2 indicates the established budgets in the "State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas" for two ozone precursor pollutants, volatile organic compounds and nitrogen oxides, in 2015. This document also established budgets for a smaller nonattainment area in eastern Sheboygan County in the event that USEPA would grant WDNR's such redesignation request. It should be noted that this conformity analysis only addresses emission forecasts in comparison to 2015 emissions budgets (for 2015, 2025, 2035 and 2045), since the conformity analysis was

conducted in 2015.

Table C.2: Motor Vehicle Emission Budgets for Sheboygan County: State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas (On a Hot Summer Day)

	Pollutan	Pollutant (Tons)									
	Volatile Organic Compounds Nitrogen Oxides										
Year	(VOCs)	(NOx)									
2015	1.9720	4.4350									

Source: Bureau of Air Management, Wisconsin Department of Natural Resources, 2015; and Bay-Lake Regional Planning Commission, 2015.

The transportation system emissions attendant to the transportation systems plan and transportation improvement program were forecast through the application of the MPO travel and traffic simulation models to the transportation system plan and transportation improvement program under forecast population, household and employment growth assuming the adopted growth scenario involving continuation of existing trends. The Sheboygan MPO Technical and Policy Advisory Committees selected the "continuation of existing trends" growth scenario as the preferred development vision for the Sheboygan metropolitan planning area in November of 2014. This decision came after several months of debate over the merits of each growth scenario. As stated earlier, VMT was minimized under the compact/infill development scenario, but members of the Sheboygan MPO Technical and Policy Advisory Committees believed that continuation of existing trends would more realistically occur in the metropolitan planning area and elsewhere in Sheboygan County in the long-range future. The "continuation of existing trends" scenario was also most consistent with adopted comprehensive plans in the metropolitan planning area and elsewhere in Sheboygan County.

Table C.3 presents the forecast vehicle miles of travel attendant to the transportation system plan and transportation improvement program by functional classification/facility type and speed range for the forecast years of 2015, 2025, 2035 and 2045, by vehicle type (auto and truck). The transportation plan projects which are not exempt from regional emissions analysis are identified at the beginning of Chapter 7 of the $Year\ 2045\ SATP$. The transportation improvement program projects which are not exempt from regional emissions analysis (where they exist) are marked as "Non-Exempt" in Table 6 of the $2016-2019\ TIP$.

It should be noted that one capacity modifying project outside the Sheboygan metropolitan planning area but within Sheboygan County was incorporated into the travel demand forecast modeling for the Year~2045~SATP, and therefore, is incorporated into this air quality conformity analysis. This project involves an increase from two to four lanes on State Highway 23 from Plymouth to Fond du Lac. This project was assumed to be completed in the 2016-2025 implementation period.

Table C.3 indicates that average annual rates of VMT increase were as follows for all of the modeled area (Sheboygan County): 0.51 percent from 2015 to 2025, 0.68 percent from 2025 to 2035, and 0.81 percent from 2035 to 2045. Growth in VMT is expected to average about 0.67 percent per year within the countywide modeling domain through 2045 under the continuation of existing trends recommended scenario.

Miles of Trav	CI WILIIII SI	2015 M	ODEL	2025 M	ODEL	2035 M	ODEL	2045 MODEL		
FACILITY TYPE	SPEED RANGE	Auto	Truck	Auto	Truck	Auto	Truck	Auto	Truck	
INTERSTATES	0-5	0	0	0	0	0	0	0	(
	5-10	0	0	0	0	0	0	0	(
	10-15	0	0	0	0	0	0	0	(
	15-20	0	0	0	0	0	0	0	(
	20-25	0	0	0	0	0	0	0	(
	25-30	0	0	0	0	0	0	0	(
	30-35	0	0	0	0	0	0	0	(
	35-40	0	0	0	0	0	0	0	(
	40-45	0	0	0	0	0	0	0	(
	45-50	0	0	0	0	0	0	0	(
	50-55	0	0	0	0	0	0	0	(
	55-60	0	0	0	0	0	0	0	(
	60-65	0	0	0	0	0	0	0	(
	65+	721,077	87,538	761,751	93,777	826,919	104,655	890,707	117,690	
	Subtotal	721,077	87,538	761,751	93,777	826,919	104,655	890,707	117,690	
OTHER FREEWAYS	0-5	0	0	0	0	0	0	0	(
	5-10	0	0	0	0	0	0	0	(
	10-15	0	0	0	0	0	0	0	(
	15-20	0	0	0	0	0	0	0	(
	20-25	0	0	0	0	0	0	0	(
	25-30	0	0	0	0	0	0	0	(
	30-35	0	0	0	0	0	0	0	(
	35-40	0	0	0	0	0	0	0	(
	40-45	0	0	0	0	0	0	0	(
	45-50	0	0	0	0	0	0	0	(
	50-55	0	0	0	0	0	0	0	(
	55-60	0	0	0	0	0	0	0	(
	60-65	0	0	0	0	0	0	0	(
	65+	0	0	0	0	0	0	0	(
	Subtotal	0	0	0	0	0	0	0	(
RAMPS	0-5	0	0	0	0	0	0	0	(
	5-10	0	0	0	0	0	0	0	(
•	10-15	0	0	0	0	0	0	0	(
•	15-20	0	0	0	0	Ü	-	0	(
	20-25 25-30	0	0	0	0	810 55	110	0		
	30-35	41,648	5,779	44,921	6,244	47,773	6,632	55,085	7,88	
•	35-40		3,779	194	39	214	42	33,083		
-	35-40 40-45	690 0	89	194	0	0	42	0	11	
-	40-45	0	0	0	0	0	0	0	(
-	50-55	0	0	0	0	0	0	0	(
-	55-60	0	0	0	0	0	0	0		
•	60-65	0	0	0	0	0	0	0		
•	65+	0	0	0	0	0	0	0	- (
ŀ	Subtotal	42,338	5,868	45,116	6,283	48,852	6,792	55,166	7,898	

	el Within Sh	2015 M		2025 M	ODEL	2035 M	ODEL	2045 MG	ODEL	
FACILITY TYPE	SPEED RANGE	Auto	Truck	Auto	Truck	Auto	Truck	Auto	Truck	
EXPRESSWAYS	0-5	0	0	0	0	0	0	0		
	5-10	0	0	0	0	0	0	0		
	10-15	0	0	0	0	0	0	0		
	15-20	0	0	0	0	0	0	0		
	20-25	0	0	0	0	0	0	0		
	25-30	0	0	0	0	0	0	0		
	30-35	0	0	0	0	0	0	0		
	35-40	0	0	0	0	0	0	0		
	40-45	0	0	0	0	0	0	0		
	45-50	181,281	20,566	290,130	32,461	212,634	26,479	229,505	31,3	
	50-55	239,222	22,460	259,079	24,751	386,855	41,012	424,077	50,2	
	55-60	0	0	0	0	0	0	0		
	60-65	0	0	0	0	0	0	0		
	65+	0	0	0	0	0	0	0		
	Subtotal	420,503	43,026	549,209	57,212	599,489	67,491	653,582	81,5	
URBAN PRINCIPAL	0-5	0	0	0	0	0	0	0		
ARTERIALS	5-10	0	0	0	0	0	0	0		
	10-15	0	0	0	0	0	0	0		
	15-20	0	0	0	0	0	0	0		
	20-25	0	0	0	0	0	0	0		
<u> </u>	25-30	13,971	784	14,240	795	14,768	835	15,690	9	
	30-35	0	0	0	0	0	0	0		
	35-40	127,768	9,517	130,268	9,750	132,393	9,714	138,186	10,2	
	40-45	30,870	3,187	31,500	3,224	32,723	3,298	34,956	3,4	
	45-50	0	0	0	0	0	0	0		
	50-55	0	0	0	0	0	0	0		
	55-60	0	0	0	0	0	0	0		
	60-65	0	0	0	0	0	0	0		
	65+	0	0	0	0	0	0	0		
	Subtotal	172,608	13,487	176,008	13,769	179,884	13,847	188,832	14,6	
URBAN MINOR	0-5	0	0	0	0	0	0	0		
ARTERIALS	5-10	0	0	0	0	0	0	0		
	10-15	0	0	0	0	0	0	0		
	15-20	0	0	0	0	0	0	0		
	20-25	0	0	0	0	0	0	0		
	25-30	25,187	1,524	25,339	1,541	25,782	1,606	27,041	1,7	
	30-35	0	0	0	0	0	0	0		
	35-40	128,087	6,666	130,833	6,896	137,329	7,663	147,355	8,6	
	40-45	0	0	0	0	0	0	0		
	45-50	41,283	2,933	43,227	3,116	51,327	4,214	60,007	5,2	
	50-55	0	0	0	0	0	0	0		
	55-60	0	0	0	0	0	0	0		
	60-65	0	0	0	0	0	0	0		
	65+	0	0	0	0	0	0	0		
	Subtotal	194,557	11,123	199,400	11,553	214,437	13,484	234,403	15,7	

Villes of Trav		2015 M	ODEL	2025 M	ODEL	2035 M	ODEL	2045 M	ODEL
FACILITY TYPE	SPEED RANGE	Auto	Truck	Auto	Truck	Auto	Truck	Auto	Truck
URBAN	0-5	0	0	0	0	0	0	0	
COLLECTORS	5-10	0	0	0	0	0	0	0	
	10-15	0	0	0	0	0	0	0	
	15-20	0	0	0	0	0	0	0	
	20-25	5,468	263	5,535	269	5,828	296	6,293	33
	25-30	0	0	0	0	1,337	26	0	
	30-35	92,034	4,727	94,478	4,929	100,007	5,440	107,657	6,17
	35-40	19,845	796	20,894	849	22,954	986	28,090	1,21
	40-45	4,584	165	4,750	170	3,923	160	4,012	17
	45-50	0	0	0	0	0	0	0	
	50-55	0	0	0	0	0	0	0	
	55-60	0	0	0	0	0	0	0	
	60-65	0	0	0	0	0	0	0	
	65+	0	0	0	0	0	0	0	
	Subtotal	121,931	5,951	125,656	6,217	134,049	6,908	146,052	7,9
URBAN LOCALS	0-5	0	0	0	0	0	0	0	
	5-10	0	0	0	0	0	0	0	
10-15 15-20		0	0	0	0	0	0	0	
		1,886	129	1,859	129	1,811	130	1,760	1
	20-25	14,829	600	14,860	603	15,009	618	15,169	6
		0	0	0	0	0	0	5	
	30-35	0	0	0	0	0	0	0	
	35-40	0	0	0	0	0	0	0	
	40-45	0	0	0	0	0	0	0	
	45-50	0	0	0	0	0	0	0	
	50-55	0	0	0	0	0	0	0	
	55-60	0	0	0	0	0	0	0	
	60-65	0	0	0	0	0	0	0	
	65+	0	0	0	0	0	0	0	
	Subtotal	16,715	729	16,719	732	16,820	748	16,934	7
RURAL PRINCIPAL	0-5	0	0	0	0	0	0	0	
ARTERIALS	5-10	0	0	0	0	0	0	0	
	10-15	0	0	0	0	0	0	0	
	15-20	0	0	0	0	0	0	0	
	20-25	0	0	0	0	0	0	0	
	25-30	0	0	0	0	0	0	0	
	30-35	0	0	0	0	0	0	4,353	2
	35-40	6,988	590	7,299	622	8,838	777	5,315	6
	40-45	122,305	10,930	103,763	9,244	114,099	10,087	90,153	7,9
	45-50	115,881	9,425	68,412	5,294	64,372	5,224	105,879	9,5
	50-55	14,200	1,281	14,680	1,340	15,342	1,483	16,024	1,7
	55-60	0	0	0	0	0	0	0	
	60-65	0	0	0	0	0	0	0	
	65+	0	0	0	0	0	0	0	
	Subtotal	259,375	22,226	194,154	16,499	202,650	17,571	221,725	20,0

		2015 M		2025 M		2035 M	_	2045 M	
FACILITY TYPE	SPEED RANGE	Auto	Truck	Auto	Truck	Auto	Truck	Auto	Truck
RURAL MINOR	0-5	0	0	0	0	0	0	0	0
ARTERIALS	5-10	0	0	0	0	0	0	0	0
	10-15	0	0	0	0	0	0	0	0
	15-20	0	0	0	0	0	0	0	0
	20-25	0	0	0	0	0	0	0	0
	25-30	5,994	332	6,063	317	6,248	327	15,994	1,146
	30-35	39,254	2,301	41,311	2,442	45,274	2,799	55,054	3,676
	35-40	82,354	6,277	86,210	6,587	90,387	7,018	85,386	6,922
	40-45	39,503	2,341	39,319	2,244	41,879	2,406	56,450	3,765
	45-50	253,010	18,184	258,266	18,688	265,553	19,809	266,423	21,011
	50-55	0	0	0	0	0	0	0	0
	55-60	0	0	0	0	0	0	0	0
	60-65	0	0	0	0	0	0	0	0
	65+	0	0	0	0	0	0	0	0
	Subtotal	420,116	29,437	431,169	30,278	449,340	32,360	479,308	36,520
RURAL MAJOR	0-5	0	0	0	0	0	0	0	C
COLLECTORS	5-10	0	0	0	0	0	0	0	C
	10-15	0	0	0	0	0	0	0	C
	15-20	0	0	1,307	94	0	0	0	C
	20-25	0	0	0	0	0	0	0	0
	25-30	0	0	0	0	0	0	0	C
	30-35	8,752	638	10,375	761	13,264	963	17,081	1,168
	35-40	104,045	6,698	107,185	6,922	112,546	7,314	116,374	7,902
	40-45	197,143	14,952	200,056	15,174	206,912	16,176	222,501	18,484
	45-50	0	0	0	0	0	0	0	0
	50-55	0	0	0	0	0	0	0	0
	55-60	0	0	0	0	0	0	0	0
	60-65	0	0	0	0	0	0	0	0
	65+	0	0	0	0	0	0	0	
	Subtotal	309,941	22,288	318,923	22,950	332,723	24,453	355,955	27,554
RURAL MINOR	0-5	0	0	0	0	0	0	0	0
COLLECTORS	5-10	0	0	0	0	0	0	0	0
	10-15	0	0	0	0	0	0	0	
	15-20	0	0	0	0	0	0	0	(
	20-25	0	0	0	0	0	0	0	
	25-30	11,666	456	11,955	475	12,527	524	13,056	568
	30-35	10,558	505	11,271	561	12,409	655	14,457	822
	35-40	172,362	6,337	176,798	6,608	188,294	7,665	201,435	8,737
	40-45	0	0	0	0	0	0	0	(
	45-50	0	0	0	0	0	0	0	(
	50-55	0	0	0	0	0	0	0	(
	55-60	0	0	0	0	0	0	0	(
	60-65	0	0	0	0	0	0	0	0
	65+	0	0	0	0	0	0	0	0
	Subtotal	194,586	7,298	200,024	7,644	213,230	8,844	228,948	10,127

		2015 M	ODEL	2025 M	ODEL	2035 M	ODEL	2045 M	ODEL
FACILITY TYPE	SPEED RANGE	Auto	Truck	Auto	Truck	Auto	Truck	Auto	Truck
RURAL LOCALS	0-5	0	0	0	0	0	0	0	0
	5-10	0	0	0	0	0	0	0	0
	10-15	0	0	0	0	0	0	0	0
	15-20	0	0	0	0	0	0	0	0
	20-25	39,651	1,780	40,779	1,850	42,747	2,003	46,350	2,261
	25-30	0	0	1	0	0	0	0	0
	30-35	0	0	0	0	0	0	0	0
	35-40	0	0	0	0	0	0	0	0
	40-45	0	0	0	0	0	0	0	0
	45-50	0	0	0	0	0	0	0	0
	50-55	0	0	0	0	0	0	0	0
	55-60	0	0	0	0	0	0	0	0
	60-65	0	0	0	0	0	0	0	0
	65+	0	0	0	0	0	0	0	0
	Subtotal	39,651	1,780	40,781	1,850	42,747	2,003	46,350	2,261
ALL TYPES	0-5	0	0	0	0	0	0	0	0
	5-10	0	0	0	0	0	0	0	0
	10-15	0	0	0	0	0	0	0	0
	15-20	1,886	129	3,166	223	1,811	130	1,760	131
	20-25	59,948	2,643	61,174	2,722	64,395	3,027	67,812	3,237
	25-30	56,818	3,096	57,598	3,128	60,717	3,327	71,787	4,415
	30-35	192,246	13,950	202,356	14,937	218,728	16,489	253,687	20,011
	35-40	642,139	36,970	659,681	38,271	692,954	41,179	722,223	44,364
	40-45	394,405	31,575	379,388	30,056	399,535	32,126	408,072	33,830
	45-50	591,457	51,108	660,035	59,559	593,886	55,726	661,814	67,157
	50-55	253,422	23,741	273,759	26,091	402,196	42,496	440,101	51,931
	55-60	0	0	0	0	0	0	0	0
	60-65	0	0	0	0	0	0	0	0
	65+	721,077	87,538	761,751	93,777	826,919	104,655	890,707	117,690
	TOTAL	2,913,397	250,750	3,058,908	268,765	3,261,140	299,156	3,517,962	342,767

Source: Wisconsin Department of Transportation, 2015; Wisconsin Department of Natural Resources, 2014; and Bay-Lake Regional Planning Commission, 2015.

Table C.4 presents the summer weekday average speeds (by speed range and facility type) within Sheboygan County that were projected by the travel demand forecast model for the analysis years of 2015, 2025, 2035 and 2045. Entries only appear in Table C.4 where there was VMT activity.

Table C.4: Year 2045 Sheboygan Area Transportation Plan (SATP): Summer Weekday Average Speeds (by Speed Range and Facility Type) Within Sheboygan County: Forecast 2015, 2025, 2035 and 2045

2033 and 2043		2015 M	ODEL	2025 M	ODEL	2035 M	ODEL	2045 M	ODEL
		Auto	Truck	Auto	Truck	Auto	Truck	Auto	Truck
FACILITY TYPE	SPEED RANGE	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH
INTERSTATES	0-5	NA	NA	NA	NA	NA	NA	NA	NA
	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	NA	NA	NA	NA	NA	NA
	20-25	NA	NA	NA	NA	NA	NA	NA	NA
	25-30	NA	NA	NA	NA	NA	NA	NA	NA
	30-35	NA	NA	NA	NA	NA	NA	NA	NA
	35-40	NA	NA	NA	NA	NA	NA	NA	NA
	40-45	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	72.92	73.18	72.71	73.01	72.28	72.63	71.84	72.25
OTHER FREEWAYS	0-5	NA	NA	NA	NA	NA	NA	NA	NA
	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	NA	NA	NA	NA	NA	NA
	20-25	NA	NA	NA	NA	NA	NA	NA	NA
	25-30	NA	NA	NA	NA	NA	NA	NA	NA
	30-35	NA	NA	NA	NA	NA	NA	NA	NA
	35-40	NA	NA	NA	NA	NA	NA	NA	NA
	40-45	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA
RAMPS	0-5	NA	NA	NA	NA	NA	NA	NA	NA
	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	NA	NA	NA	NA	NA	NA
	20-25	NA	NA	NA	NA	24.97	24.99	NA	NA
	25-30	NA	NA	NA	NA	29.96	29.99	NA	NA
	30-35	34.94	34.95	34.91	34.93	34.82	34.85	34.69	34.74
	35-40	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
[40-45	NA	NA	NA	NA	NA	NA	NA	NA
[45-50	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	NA	NA	NA	NA	NA	NA	NA	NA
[55-60	NA	NA	NA	NA	NA	NA	NA	NA
[60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4: *Year 2045 Sheboygan Area Transportation Plan (SATP)*: Summer Weekday Average Speeds (by Speed Range and Facility Type) Within Sheboygan County: Forecast 2015, 2025, 2035 and 2045

		2015 M	ODEL	2025 M	ODEL	2035 M	ODEL	2045 M	ODEL
		Auto	Truck	Auto	Truck	Auto	Truck	Auto	Truck
FACILITY TYPE	SPEED RANGE	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH
EXPRESSWAYS	0-5	NA	NA	NA	NA	NA	NA	NA	NA
	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	NA	NA	NA	NA	NA	NA
	20-25	NA	NA	NA	NA	NA	NA	NA	NA
	25-30	NA	NA	NA	NA	NA	NA	NA	NA
	30-35	NA	NA	NA	NA	NA	NA	NA	NA
	35-40	NA	NA	NA	NA	NA	NA	NA	NA
	40-45	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	49.99	49.99	49.59	49.78	49.97	49.98	49.96	49.97
	50-55	54.99	54.99	54.99	54.99	54.04	54.01	54.99	54.98
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA
URBAN PRINCIPAL	0-5	NA	NA	NA	NA	NA	NA	NA	NA
ARTERIALS	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	NA	NA	NA	NA	NA	NA
	20-25	NA	NA	NA	NA	NA	NA	NA	NA
	25-30	27.18	27.25	27.13	27.21	27.04	27.11	26.87	26.94
	30-35	NA	NA	NA	NA	NA	NA	NA	NA
	35-40	39.13	39.30	39.08	39.26	38.99	39.16	38.84	39.00
	40-45	44.38	44.49	44.36	44.46	44.26	44.38	44.05	44.21
	45-50	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA
URBAN MINOR	0-5	NA	NA	NA	NA	NA	NA	NA	NA
ARTERIALS	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	NA	NA	NA	NA	NA	NA
	20-25	NA	NA	NA	NA	NA	NA	NA	NA
	25-30	27.86	27.89	27.85	27.89	27.84	27.88	27.83	27.87
	30-35	NA	NA	NA	NA	NA	NA	NA	NA
	35-40	37.95	37.96	37.94	37.96	37.93	37.94	37.89	37.91
	40-45	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	46.99	46.99	46.98	46.99	46.97	46.97	46.93	46.93
	50-55	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4: *Year 2045 Sheboygan Area Transportation Plan (SATP)*: Summer Weekday Average Speeds (by Speed Range and Facility Type) Within Sheboygan County: Forecast 2015, 2025, 2035 and 2045

		2015 M	ODEL	2025 M	ODEL	2035 M	ODEL	2045 M	IODEL
		Auto	Truck	Auto	Truck	Auto	Truck	Auto	Truck
FACILITY TYPE	SPEED RANGE	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH
URBAN	0-5	NA	NA	NA	NA	NA	NA	NA	NA
COLLECTORS	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	NA	NA	NA	NA	NA	NA
	20-25	24.88	24.89	24.88	24.89	24.87	24.88	24.85	24.87
	25-30	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
	30-35	34.69	34.67	34.68	34.66	34.66	34.64	34.64	34.61
	35-40	39.91	39.89	39.90	39.89	39.89	39.87	39.87	39.85
	40-45	44.94	44.89	44.94	44.88	44.91	44.84	44.88	44.79
	45-50	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA
URBAN LOCALS	0-5	NA	NA	NA	NA	NA	NA	NA	NA
	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	19.98	19.98	19.98	19.99	19.98	19.99	19.99	19.99
	20-25	24.94	24.95	24.94	24.95	24.94	24.95	24.94	24.95
	25-30	NA	NA	NA	NA	NA	NA	25.00	25.00
	30-35	NA	NA	NA	NA	NA	NA	NA	NA
	35-40	NA	NA	NA	NA	NA	NA	NA	NA
	40-45	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA
RURAL PRINCIPAL	0-5	NA	NA	NA	NA	NA	NA	NA	NA
ARTERIALS	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	NA	NA	NA	NA	NA	NA
	20-25	NA	NA	NA	NA	NA	NA	NA	NA
	25-30	NA	NA	NA	NA	NA	NA	NA	NA
	30-35	NA	NA	NA	NA	NA	NA	34.51	34.99
	35-40	37.91	38.81	37.34	38.24	37.02	38.08	36.96	37.82
	40-45	42.92	43.56	42.22	42.81	42.02	42.58	41.29	41.84
	45-50	46.26	46.77	46.95	47.29	46.83	47.15	46.46	46.87
	50-55	51.23	51.49	51.12	51.37	50.94	51.19	50.73	50.99
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4: Year 2045 Sheboygan Area Transportation Plan (SATP): Summer Weekday Average Speeds (by Speed Range and Facility Type) Within Sheboygan County: Forecast 2015, 2025, 2035 and 2045

		2015 M	ODEL	2025 M	ODEL	2035 MODEL		2045 MODEL	
		Auto	Truck	Auto	Truck	Auto	Truck	Auto	Truck
FACILITY TYPE	SPEED RANGE	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH
RURAL MINOR	0-5	NA	NA	NA	NA	NA	NA	NA	NA
ARTERIALS	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	NA	NA	NA	NA	NA	NA
	20-25	NA	NA	NA	NA	NA	NA	NA	NA
	25-30	28.78	29.92	28.82	29.85	28.63	29.62	28.22	28.76
	30-35	32.86	33.29	32.62	32.98	32.16	32.44	32.81	33.30
	35-40	36.89	37.13	36.76	37.00	36.54	36.80	36.43	36.65
	40-45	43.07	44.04	43.12	43.98	42.90	43.69	43.10	43.88
	45-50	46.75	47.00	46.71	46.94	46.59	46.82	46.46	46.64
	50-55	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA
RURAL MAJOR	0-5	NA	NA	NA	NA	NA	NA	NA	NA
COLLECTORS	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	19.97	19.99	NA	NA	NA	NA
	20-25	NA	NA	NA	NA	NA	NA	NA	NA
	25-30	NA	NA	NA	NA	NA	NA	NA	NA
	30-35	33.85	34.25	33.78	34.18	33.53	33.91	33.29	33.65
	35-40	38.00	38.31	37.89	38.19	37.75	38.06	37.60	37.86
	40-45	43.09	43.38	43.06	43.35	42.94	43.24	42.75	43.06
	45-50	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA
RURAL MINOR	0-5	NA	NA	NA	NA	NA	NA	NA	NA
COLLECTORS	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	NA	NA	NA	NA	NA	NA
	20-25	NA	NA	NA	NA	NA	NA	NA	NA
	25-30	29.56	29.60	29.55	29.57	29.53	29.54	29.51	29.52
	30-35	34.35	34.39	34.29	34.33	34.18	34.23	34.00	34.06
	35-40	39.03	39.17	38.99	39.11	38.93	39.04	38.86	38.98
	40-45	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA

Table C.4: Year 2045 Sheboygan Area Transportation Plan (SATP): Summer Weekday Average Speeds (by Speed Range and Facility Type) Within Sheboygan County: Forecast 2015, 2025, 2035 and 2045

		2015 M	ODEL	2025 M	ODEL	2035 M	ODEL	2045 M	ODEL
		Auto	Truck	Auto	Truck	Auto	Truck	Auto	Truck
FACILITY TYPE	SPEED RANGE	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH
RURAL LOCALS	0-5	NA	NA	NA	NA	NA	NA	NA	NA
	5-10	NA	NA	NA	NA	NA	NA	NA	NA
	10-15	NA	NA	NA	NA	NA	NA	NA	NA
	15-20	NA	NA	NA	NA	NA	NA	NA	NA
	20-25	24.90	24.90	24.90	24.90	24.88	24.88	24.86	24.85
	25-30	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
	30-35	NA	NA	NA	NA	NA	NA	NA	NA
	35-40	NA	NA	NA	NA	NA	NA	NA	NA
	40-45	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	NA	NA	NA	NA	NA	NA	NA	NA
	60-65	NA	NA	NA	NA	NA	NA	NA	NA
	65+	NA	NA	NA	NA	NA	NA	NA	NA

Source: Wisconsin Department of Transportation, 2015; Wisconsin Department of Natural Resources, 2015; and Bay-Lake Regional Planning Commission, 2015.

Table C.5 presents the attendant volatile organic compound emissions. The forecasts are presented for the years 2015, 2025, 2035 and 2045 for all of Sheboygan County. In addition, Table C.5 presents the 2015 motor vehicle emissions budget for volatile organic compounds incorporated in the "State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas." The transportation system volatile organic compound emissions under the transportation system plan and transportation improvement program, when analyzed for all of Sheboygan County, are less than the motor vehicle emissions budget for volatile organic compounds in the "State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas," thus meeting this criterion for consistency.

Table C.5: Forecast Volatile Organic Compound Emissions from the Transportation System in Sheboygan County Under the *Year 2045 SATP/2016 – 2019 TIP* and the State Implementation Plan for Air Quality: 2015, 2025, 2035 and 2045 (On a Hot Summer Weekday) Using MOVES 2014

	Sheboygan County						
	State Implementation	Year 2045					
Year	Plan (tons)*	SATP (tons)					
2015	1.9720	1.6770					
2025	1.9720	0.7423					
2035	1.9720	0.4501					
2045	1.9720	0.4337					

*The State Implementation Plan budget for volatile organic compounds is 1.9720 tons for 2015. Source: Wisconsin Department of Natural Resources, 2015; and Bay-Lake Regional Planning Commission, 2015.

Table C.6 presents the forecast nitrogen oxide emissions. The forecasts are presented for the years 2015, 2025, 2035 and 2045 for all of Sheboygan County. In addition, Table C.6 presents

the 2015 motor vehicle emissions budget for nitrogen oxides incorporated in the "State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas." The transportation system nitrogen oxide emissions under the transportation system plan and transportation improvement program, when analyzed for all of Sheboygan County, are less than the motor vehicle emissions budget for nitrogen oxides included in the "State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas," thus meeting this criterion for consistency. This analysis assumes the same VMT and socioeconomic growth rates over the planning period as those which were assumed in the test for volatile organic compounds.

Table C.6: Forecast Nitrogen Oxide Emissions from the Transportation System in Sheboygan County Under the *Year 2045 SATP/2016 – 2019 TIP* and the State Implementation Plan for Air Quality: 2015, 2025, 2035 and 2045 (On a Hot Summer Weekday) Using MOVES 2014

	Sheboygan County						
	State Implementation	Year 2045					
Year	Plan (tons)*	SATP (tons)					
2015	4.4350	3.6967					
2025	4.4350	1.3222					
2035	4.4350	0.8568					
2045	4.4350	0.9038					

*The State Implementation Plan budget for nitrogen oxides is 4.4350 tons for 2015.

Source: Wisconsin Department of Natural Resources, 2015; and Bay-Lake Regional Planning Commission, 2015.

The transportation plan, the transportation improvement program and the travel simulation modeling analysis of attendant emissions fully meet the requirements for transportation plans and programs established in the July 1, 2004, *Federal Register* (40 CFR 93.122). The transportation plan includes all additions to the transportation system. All additions of arterial and collector street and highway system capacity, including widening of arterial and collector streets to provide additional traffic lanes and construction of new facilities, are incorporated in the plan.

The travel simulation modeling conducted under this conformity analysis is fully consistent with the travel simulation modeling conducted for the preparation of the *Year 2045 Sheboygan Area Transportation Plan (SATP)*. The travel simulation modeling for the conformity determination is sensitive to the added capacity and service provided by each arterial and collector expansion or improvement, accurately reflecting its potential effect through changes in travel time and attendant route choice, mode choice, travel patterns and trip generation. The *Year 2045 SATP* and its treatment in the travel simulation modeling analysis goes beyond the federally required consideration of federally defined regionally significant projects (principal arterial routes and transit fixed guideways) in that it includes all arterial and collector facilities within Sheboygan County (including the Sheboygan metropolitan planning area). In addition, the *Year 2045 SATP* is consistent with the approved growth plans and boundaries for the metropolitan planning area, which in turn are consistent with adopted local land use plans. The *Year 2045 SATP* was designed to serve and promote implementation of current and emerging land use plans for communities within the Sheboygan metropolitan planning area.

The Year 2045 SATP and the 2016 - 2019 TIP are fiscally constrained pursuant to U.S. Department of Transportation metropolitan planning regulations (23 CFR 450). The total costs of the Year 2045 SATP and of the 2016 - 2019 TIP, including both capital and operating costs, were estimated and compared to existing available Federal, State and local funding levels; no

funding shortfalls were identified. In addition, per updated metropolitan planning regulations revised in response to the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), and maintained in the Moving Ahead for Progress in the 21^{st} Century Act (MAP-21), "year of expenditure" (inflation adjusted) costs and revenues (where applicable) were used in preparing the financial plan components of the *Year 2045 SATP* and the 2016 - 2019 TIP. This financial analysis of the *Year 2045 SATP* and of the 2016 - 2019 TIP was coordinated with, and is consistent with, the statewide transportation system plan (*Connections 2030*), as well as with other modal state transportation plans are they have been developed.

The procedures for estimating the regional transportation plan and transportation improvement program emissions also fully meet the requirements established in the July 1, 2004, *Federal Register* (40 CFR 93.122). Specifically, the travel simulation modeling analysis for this conformity determination incorporates in the analysis all planned street and highway capacity improvements and expansion for all arterial and collector facilities. The travel simulation modeling analysis does not assume emission reductions for any transportation control measures or control programs external to the transportation system, such as changes to motor fuel volatility or vehicle inspection and maintenance programs, except with respect to such programs incorporated in the State Implementation Plan.

In addition, Federal requirements for determination of conformity after January 1, 1997, have been met under this conformity determination. The travel and traffic simulation models used to estimate the transportation plan air pollutant emissions are network-based models. The models represent current professional practice, and were approved by the Sheboygan MPO Technical and Policy Advisory Committees, which include representatives from Federal, State and local governments. The model estimation of trip generation is dependent on population, number of households, employment (including employment in the trade and service sectors, as well as all other employment), and school enrollment. Projections for these independent variables were developed as part of this planning effort, and are consistent with similar projections developed by State agencies in their planning processes, where such State-level projections exist.

This conformity analysis indicates that the *Year 2045 SATP* and the 2016 – 2019 TIP are consistent with the mobile sector goals of the "State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas" prepared by the Wisconsin Department of Natural Resources and found adequate by the U.S. Environmental Protection Agency.

Off-Model Emission Reduction Benefits Incorporated in this Analysis

This conformity assessment incorporates emission reduction benefits from averted vehicle miles of travel (VMT) that occurred through implementation of the Sheboygan County Non-Motorized Transportation Pilot Program (NMTPP) from 2011 to 2015. One of the projects completed under the Sheboygan County NMTPP also utilized Congestion Mitigation and Air Quality (CMAQ) program funding awarded in 2010; that project involved the "rails to trails" conversion of the Union Pacific rail corridor to a non-motorized trail through the heart of the City of Sheboygan (otherwise known as the Shoreline 400 Rail Trail). Sheboygan County (and its Planning and Conservation Department), as well as some local governments, were the sponsors of these projects. These projects are assumed to continue to operate over the planning period covered by the *Year 2045 SATP*.

Table C.7 indicates the projected emission reduction benefits (in pounds and U.S. tons) from

averted VMT that occurred through implementation of the Sheboygan County NMTPP from 2011 to 2015. Detailed information on how these estimates were derived is available from the Bay-Lake Regional Planning Commission, and is consistent with information supplied by the Wisconsin Department of Natural Resources, the Sheboygan County Planning and Conservation Department, and the Volpe National Transportation Systems Center (which prepared reports measuring the impacts of the NMTPP in the four jurisdictions that received NMTPP funding). Table C.7 indicates that the averted VMT that occurred through implementation of the Sheboygan County NMTPP from 2011 to 2015 produce small volatile organic compound (VOC) and nitrogen oxide (NOx) emission reduction benefits.

It should be noted that even without these off-model emission reduction benefits, implementation of all other plan and TIP elements remains in conformity with the "State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas" for all years of analysis.

This conformity update indicates that the *Year 2045 SATP* and its implementing 2016 - 2019 *TIP*, and in particular their capacity adding street and highway projects and averted VMT that occurred through implementation of the Sheboygan County NMTPP from 2011 to 2015, are consistent with the mobile sector goals of the State of Wisconsin Implementation Plan for Air Quality as they apply to Sheboygan County.

Table C.7: Off-Model Transportation Improvement Projects with Attendant Pollution Emission Reductions: 2015, 2025, 2035 and 2045 (On a Hot Summer Weekday)

		REDUCTION IN VOC EMISSIONS (POUNDS PER DAY)			REDUCTION in NOx EMISSIONS (POUNDS PER DAY)				
SPONSOR	TITLE OF PROJECT	2015	2025	2035	2045	2015	2025	2035	2045
Sheboygan County	Averted Vehicle Miles of	0.3970	0.1233	0.0678	0.0662	1.0879	0.2083	0.0655	0.0541
Planning and Conservation	Travel (VMT) Through								
Department (and Other	Implementation of the								
Various Local Sponsors)	Sheboygan County Non-								
	Motorized Transportation								
	Pilot Program (NMTPP)								
	from 2011 to 2015								
TOTAL OFF-MODEL		0.000198	0.000062	0.000034	0.000033	0.000544	0.000104	0.000033	0.000027
EMISSION REDUCTIONS									
(TONS)									

Note: Assumptions made in developing these emissions reductions estimates are on file at the Bay-Lake Regional Planning Commission.

Source: Wisconsin Department of Natural Resources, 2015; and Bay-Lake Regional Planning Commission, 2015.

CONSISTENCY OF THE 2015 – 2018 TIP WITH THE YEAR 2045 SATP

The same non-exempt projects appear in the 2016 - 2019 TIP as those which appear in the Year 2045 SATP for the 2015 implementation period and for the early portion of the 2016 - 2025 implementation period. Non-exempt projects recommended in the 2016 - 2019 TIP are identical in project scope to those in the Year 2045 SATP. In addition, the schedule of project implementation for the 2016 - 2019 TIP is identical to that of the Year 2045 SATP.

The transportation plan projects which are not exempt from regional emissions analysis are identified in the implementation timetable for those projects found in Table 7.1 of the *Year 2045 SATP*. The transportation improvement program projects which are not exempt from regional emissions analysis are marked as "Non-Exempt" in Table 6 of the *2016 – 2019 TIP*.

The 2016 - 2019 TIP is consistent with the Year 2045 SATP. The 2016 - 2019 TIP is therefore an accurate subset of the Year 2045 SATP (i.e.: includes the identical projects being implemented

on the identical implementation schedule of the *Year 2045 SATP*), and consequently, the regional emissions analysis for the *Year 2045 SATP* has also been utilized to demonstrate conformity of the *2016 – 2019 TIP* to the Wisconsin State Implementation Plan for Air Quality.

STATUS REPORT ON AIR QUALITY CLASSIFICATION STATUS

On May 21, 2012, USEPA designated Sheboygan County a marginal nonattainment area for ground-level ozone under the 2008 eight-hour standard for that pollutant. The effective date for that designation was July 20, 2012. Sheboygan County also remains a moderate nonattainment area for the 1997 eight-hour ozone standard.

In September 2009, the Wisconsin Department of Natural Resources prepared an "8-Hour Ozone Redesignation Request and Maintenance Plan for the Sheboygan County Subpart-2 Moderate Nonattainment Area," which was submitted to USEPA. Several other Wisconsin counties were included in this redesignation request, including Manitowoc and Door counties, as well as six counties in southeastern Wisconsin. On April 26, 2010, USEPA published in the *Federal Register* that it had determined that the motor vehicle emissions budgets in this State Implementation Plan (SIP) element were adequate for transportation conformity determinations; this finding took effect on May 21, 2010.

The "8-Hour Ozone Redesignation Request and Maintenance Plan" was approved for all counties except Sheboygan County (in addition, the eastern portion of Kenosha County was included in the Chicago multistate nonattainment area). Unfortunately, Sheboygan County continued to have high ozone readings at its monitor near Lake Michigan, which kept the county in nonattainment.

In 2014, the Wisconsin Department of Natural Resources prepared the latest SIP element applicable to Sheboygan County. This document was titled *The State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas: A CAA-required State Implementation Plan addressing the 2008 8-Hour Ozone National Ambient Air Quality Standard.* A public hearing on this SIP element was held in December 2014, and the public comment period on this SIP element ran through mid January of 2015. This SIP element was submitted to USEPA for adequacy review in early 2015, and the conformity budgets in the SIP element were determined to be adequate in April of 2015.

Recognizing that ozone concentrations are a problem that primarily impacts the Lake Michigan shoreline, the Wisconsin Department of Natural Resources has been working with local officials and with the USEPA to attempt to decrease the size of the nonattainment area from the entire county to eastern Sheboygan County. On June 27, 2013, the Wisconsin Department of Natural Resources asked USEPA Region 5 to adjust the Sheboygan County nonattainment boundary to a narrow strip of land adjacent to Lake Michigan. The Wisconsin Department of Natural Resources supplemented this boundary refinement request with technical information on January 22, 2014. The State of Wisconsin's 2015 Transportation Conformity Budgets for the Kenosha and Sheboygan County 2008 8-Hour Ozone Nonattainment Areas includes smaller emission budgets for a proposed smaller nonattainment area in eastern Sheboygan County in the event that such a redesignation were to take place. The Wisconsin Department of Natural Resources also has placed a temporary air monitor between Sheboygan and Howards Grove to attempt to measure the effect that proximity to Lake Michigan has on ozone levels in warm weather. It is unclear if or when USEPA will act on this proposal.

In late 2014, USEPA proposed a revision to the National Ambient Air Quality Standard

(NAAQS) for ozone. This proposal was published in the December 17, 2014, *Federal Register*. The Wisconsin Department of Natural Resources submitted comments on the proposal to USEPA in a letter dated March 17, 2015. It is fairly obvious that Sheboygan County (or a proposed smaller nonattainment area within the county) will remain nonattainment under the proposal, regardless of where the standard is set. If one of the smaller nonattainment thresholds were to end up as the standard (60 or 65 parts per billion), a significant number of Wisconsin counties could go into nonattainment status. The WDNR also commented that substantial public and private resources would be expended on attempting to return to attainment status if too low a standard is established. The WDNR also commented on how it would be impractical in Wisconsin to start the ozone monitoring season as early as March 1, and how there is a need to improve Federal policy to address regional transport of ozone and its precursors, which impact Wisconsin a great deal. The WDNR also submitted several other comments to USEPA in this letter, many of which are too technical to be discussed in brevity in this report.

Jeff Agee-Aguayo

From: Bovee, Christopher P - DNR [Christopher.Bovee@wisconsin.gov]

Sent: Thursday, April 09, 2015 9:44 AM

To: Jeff Agee-Aguayo

Cc: Friedlander, Michael - DNR

Subject: MOVES modeling results for Sheboygan Conformity

Attachments: MOVES Modeling Results.docx

Hi Jeff,

The attached MS Word document provides the MOVES2014 modeling results for the Sheboygan County conformity analysis. These modeling runs utilize the vehicle-miles of travel and average speed data you provided to me on March 12 and 13, 2015.

The total emissions are shown at the end of each of the first four tables (Tables 1-a through 1-d). These results are:

OXIDES OF NITROGEN (NOX)

2015: 3.6972 tons per summer weekday 2025: 1.3223 tons per summer weekday 2035: 0.8568 tons per summer weekday 2045: 0.9038 tons per summer weekday

VOLATILE ORGANIC COMPOUNDS (VOC)

2015: 1.6772 tons per summer weekday 2025: 0.7424 tons per summer weekday 2035: 0.4501 tons per summer weekday 2045: 0.4337 tons per summer weekday

The format of the modeling results are quite different from those I provided to you in the past. The previous results were from the U.S. EPA's MOBILE series of models, whereas these current results are from the U.S. EPA's updated MOVES model. Providing grams per mile emission factors for the average speeds you provided, as was done for the MOBILE models, would not be feasible for MOVES. MOVES uses speed distributions rather than a single speed and MOVES computes separate emission factors for running exhaust emissions, start emissions and various types of evaporative emissions.

Later today or tomorrow morning, I'll provide you emission factors that could be used for the bike/ped project. These factors will be derived from emission and vehicle-miles of travel values in the attached document.

If you have any questions or need additional information, please let me know.

Chris

We are committed to service excellence.

Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Christopher P. Bovée

Mobile Source Emissions Modeler – Bureau of Air Management Wisconsin Department of Natural Resources

Phone: (608) 266-5542 Fax: (608) 267-0560

christopher.bovee@wisconsin.gov

Recommended Emission Factors to Determine Benefits of Sheboygan County Nonmotorized Transportation Pilot Program

Calenda	r			Summer Weekdav	Hot Summer Wkdy	Emissions	Hot Summer Wkdy	/ Emis Factors
Year	Source Type	Fuel Type	Road Type	VMT	NOx (tons)	VOC (tons)	NOx (gms/mile)	VOC (gms/mile)
2015	Passenger Cars	Gasoline	Urban Unrestricted Access	261,902	0.079393	0.028940	0.2750	0.1002
2015	Passenger Cars	Diesel	Urban Unrestricted Access	1,804	0.000443	0.000191	0.2227	0.0960
2015	Passenger Cars	85% Ethanol	Urban Unrestricted Access	151	0.000019	0.000002	0.1131	0.0091
2015	Passenger Cars	ALL	Urban Unrestricted Access	263,857	0.079855	0.029132	0.2746	0.1002
2025	Passenger Cars	Gasoline	Urban Unrestricted Access	265,627	0.014721	0.008808	0.0503	0.0301
2025	Passenger Cars	Diesel	Urban Unrestricted Access	3,017	0.000159	0.000029	0.0477	0.0087
2025	Passenger Cars	85% Ethanol	Urban Unrestricted Access	3,202	0.000107	0.000022	0.0304	0.0063
2025	Passenger Cars	ALL	Urban Unrestricted Access	271,846	0.014987	0.008860	0.0500	0.0296
2035	Passenger Cars	Gasoline	Urban Unrestricted Access	280,187	0.004538	0.004792	0.0147	0.0155
2035	Passenger Cars	Diesel	Urban Unrestricted Access	3,358	0.000066	0.000014	0.0178	0.0037
2035	Passenger Cars	85% Ethanol	Urban Unrestricted Access	3,995	0.000063	0.000016	0.0143	0.0035
2035	Passenger Cars	ALL	Urban Unrestricted Access	287,540	0.004667	0.004821	0.0147	0.0152
2045	Passenger Cars	Gasoline	Urban Unrestricted Access	302,618	0.003740	0.004664	0.0112	0.0140
2045	Passenger Cars	Diesel	Urban Unrestricted Access	3,636	0.000053	0.000012	0.0133	0.0029
2045	Passenger Cars	85% Ethanol	Urban Unrestricted Access	3,316	0.000041	0.000011	0.0111	0.0029
2045	Passenger Cars	ALL	Urban Unrestricted Access	309,570	0.003834	0.004686	0.0112	0.0137

Wisconsin Department of Natural Resources April 9, 2015

Table 1-a: 2015 NOX and VOC Emissions: tons per summer weekday (tpswd)

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2015				
			NOx Emissions (tpswd)	VOC Emissions (tpswd)			
			Total	Exhaust	Evaporative	Total	
Motorcycle	Gasoline	Off-Network	0.0001	0.0006	0.0371	0.037	
Motorcycle	Gasoline	Rural Restricted	0.0028	0.0025	0.0012	0.003	
Motorcycle	Gasoline	Rural Unrestricted	0.0067	0.0074	0.0051	0.012	
Motorcycle	Gasoline	Urban Restricted	0.0026	0.0023	0.0012	0.003	
Motorcycle	Gasoline	Urban Unrestricted	0.0021	0.0027	0.0019	0.004	
Passenger Car	Gasoline	Off-Network	0.2086	0.2299	0.2950	0.524	
Passenger Car	Gasoline	Rural Restricted	0.1122	0.0212	0.0066	0.027	
Passenger Car	Gasoline	Rural Unrestricted	0.1759	0.0377	0.0211	0.058	
Passenger Car	Gasoline	Urban Restricted	0.1094	0.0214	0.0083	0.029	
Passenger Car	Gasoline	Urban Unrestricted	0.0794	0.0181	0.0108	0.028	
Passenger Car	Diesel	Off-Network	0.0010	0.0016	0.0000	0.001	
Passenger Car	Diesel	Rural Restricted	0.0006	0.0002	0.0000	0.000	
Passenger Car	Diesel	Rural Unrestricted	0.0010	0.0002	0.0000	0.000	
Passenger Car	Diesel	Urban Restricted	0.0010	0.0004	0.0000	0.000	
Passenger Car	Diesel	Urban Unrestricted	0.0004	0.0002	0.0000	0.000	
Passenger Car	Ethanol (E-85)	Off-Network	0.0004	0.0002	0.0000	0.000	
Passenger Car	Ethanol (E-85)	Rural Restricted	0.0001	0.0001	0.0000	0.000	
Passenger Car	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.000	
Passenger Car	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.000	
Passenger Car	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.000	
Passenger Truck	Gasoline	Off-Network	0.1976	0.2213	0.1320	0.353	
Passenger Truck	Gasoline	Rural Restricted	0.1466	0.0258	0.1320	0.029	
Passenger Truck	Gasoline	Rural Unrestricted	0.1466	0.0258	0.0033	0.029	
Passenger Truck	Gasoline	Urban Restricted	0.2331	0.0465	0.0122	0.036	
<u> </u>	Gasoline	Urban Unrestricted	0.1237	0.0222	0.0057	0.023	
Passenger Truck Passenger Truck			0.0843	0.0182	0.0050	0.023	
•	Diesel	Off-Network	0.0041	0.0020	0.0000	0.002	
Passenger Truck Passenger Truck	Diesel	Rural Restricted Rural Unrestricted		0.0009	0.0000	0.000	
Passenger Truck	Diesel Diesel	Urban Restricted	0.0151				
	Diesel		0.0062	0.0010 0.0010	0.0000	0.001 0.001	
Passenger Truck		Urban Unrestricted	0.0058				
Passenger Truck	Ethanol (E-85)	Off-Network	0.0001	0.0001	0.0000	0.000	
Passenger Truck	Ethanol (E-85)	Rural Restricted	0.0001	0.0000	0.0000	0.000	
Passenger Truck	Ethanol (E-85)	Rural Unrestricted	0.0002	0.0000	0.0000	0.000	
Passenger Truck	Ethanol (E-85)	Urban Restricted	0.0001	0.0000	0.0000	0.000	
Passenger Truck	Ethanol (E-85)	Urban Unrestricted	0.0001	0.0000	0.0000	0.000	
Light Commercial Truck	Gasoline	Off-Network	0.0826	0.1005	0.0534	0.154	
Light Commercial Truck	Gasoline	Rural Restricted	0.0522	0.0106	0.0015	0.012	
Light Commercial Truck	Gasoline	Rural Unrestricted	0.0925	0.0236	0.0055	0.029	
Light Commercial Truck	Gasoline	Urban Restricted	0.0451	0.0096	0.0017	0.011	
Light Commercial Truck	Gasoline	Urban Unrestricted	0.0333	0.0094	0.0023	0.011	
Light Commercial Truck	Diesel	Off-Network	0.0037	0.0027	0.0000	0.002	
Light Commercial Truck	Diesel	Rural Restricted	0.0060	0.0011	0.0000	0.001	
Light Commercial Truck	Diesel	Rural Unrestricted	0.0140	0.0030	0.0000	0.003	
Light Commercial Truck	Diesel	Urban Restricted	0.0056	0.0011	0.0000	0.001	
Light Commercial Truck	Diesel	Urban Unrestricted	0.0053	0.0012	0.0000	0.001	
Light Commercial Truck	Ethanol (E-85)	Off-Network	0.0000	0.0000	0.0000	0.000	
Light Commercial Truck	Ethanol (E-85)	Rural Restricted	0.0000	0.0000	0.0000	0.000	
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted	0.0000	0.0000	0.0000	0.000	
Light Commercial Truck	Ethanol (E-85)	Urban Restricted	0.0000	0.0000	0.0000	0.000	
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted	0.0000	0.0000	0.0000	0.000	
Intercity Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.000	
Intercity Bus	Diesel	Rural Restricted	0.0029	0.0001	0.0000	0.000	
Intercity Bus	Diesel	Rural Unrestricted	0.0046	0.0003	0.0000	0.000	
Intercity Bus	Diesel	Urban Restricted	0.0034	0.0002	0.0000	0.000	
Intercity Bus	Diesel	Urban Unrestricted	0.0024	0.0002	0.0000	0.000	

Source Type	Fuel Type	Road Type	Sheboygan W	/hole County No	nattainment Area	– Year 2015
			NOx Emissions	<u> </u>	VOC Emission	
			(tpswd)	1	(tpswd)	
	- "		Total	Exhaust	Evaporative	Total
Transit Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Rural Harastriated	0.0000	0.0000	0.0000	0.0000
Transit Bus Transit Bus	Gasoline Gasoline	Rural Unrestricted Urban Restricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	Diesel	Rural Restricted	0.0047	0.0003	0.0000	0.0003
Transit Bus	Diesel	Rural Unrestricted	0.0058	0.0004	0.0000	0.0004
Transit Bus	Diesel	Urban Restricted	0.0055	0.0004	0.0000	0.0004
Transit Bus	Diesel	Urban Unrestricted	0.0029	0.0002	0.0000	0.0002
Transit Bus	CNG	Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Restricted	0.0004	0.0000	0.0000	0.0000
Transit Bus	CNG	Rural Unrestricted	0.0005	0.0001	0.0000	0.0001
Transit Bus	CNG	Urban Restricted	0.0005	0.0001	0.0000	0.0001
Transit Bus	CNG	Urban Unrestricted	0.0002	0.0001	0.0000	0.0001
School Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0001
School Bus School Bus	Gasoline Gasoline	Rural Restricted Rural Unrestricted	0.0000 0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
School Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
School Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000
School Bus	Diesel	Rural Restricted	0.0059	0.0006	0.0000	0.0006
School Bus	Diesel	Rural Unrestricted	0.0073	0.0012	0.0000	0.0012
School Bus	Diesel	Urban Restricted	0.0068	0.0009	0.0000	0.0009
School Bus	Diesel	Urban Unrestricted	0.0038	0.0007	0.0000	0.0007
Refuse Truck	Gasoline	Off-Network	0.0001	0.0001	0.0000	0.0001
Refuse Truck	Gasoline	Rural Restricted	0.0002	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Rural Unrestricted	0.0002	0.0000	0.0000	0.0001
Refuse Truck	Gasoline	Urban Restricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck	Gasoline	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
Refuse Truck Refuse Truck	Diesel Diesel	Off-Network Rural Restricted	0.0000 0.0090	0.0000 0.0004	0.0000	0.0000
Refuse Truck	Diesel	Rural Unrestricted	0.0090	0.0004	0.0000	0.0004
Refuse Truck	Diesel	Urban Restricted	0.0070	0.0003	0.0000	0.0003
Refuse Truck	Diesel	Urban Unrestricted	0.0030	0.0003	0.0000	0.0003
Single Unit Short-haul Truck	Gasoline	Off-Network	0.0124	0.0119	0.0106	0.0225
Single Unit Short-haul Truck	Gasoline	Rural Restricted	0.0114	0.0018	0.0002	0.0020
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted	0.0172	0.0040	0.0005	0.0045
Single Unit Short-haul Truck	Gasoline	Urban Restricted	0.0137	0.0024	0.0002	0.0026
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted	0.0073	0.0020	0.0002	0.0023
Single Unit Short-haul Truck	Diesel	Off-Network	0.0046	0.0003	0.0000	0.0003
Single Unit Short-haul Truck	Diesel	Rural Restricted	0.0411	0.0042	0.0000	0.0042
Single Unit Short-haul Truck	Diesel	Rural Unrestricted	0.0662	0.0098	0.0000	0.0098
Single Unit Short-haul Truck Single Unit Short-haul Truck	Diesel Diesel	Urban Restricted Urban Unrestricted	0.0470	0.0056	0.0000	0.0056
Single Unit Long-haul Truck	Gasoline	Off-Network	0.0306 0.0003	0.0046 0.0004	0.0000 0.0004	0.0046 0.0007
Single Unit Long-haul Truck	Gasoline	Rural Restricted	0.0003	0.0004	0.0004	0.0007
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted	0.0005	0.0001	0.0000	0.0002
Single Unit Long-haul Truck	Gasoline	Urban Restricted	0.0004	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted	0.0002	0.0001	0.0000	0.0001
Single Unit Long-haul Truck	Diesel	Off-Network	0.0001	0.0000	0.0000	0.0000
Single Unit Long-haul Truck	Diesel	Rural Restricted	0.0024	0.0003	0.0000	0.0003
Single Unit Long-haul Truck	Diesel	Rural Unrestricted	0.0041	0.0007	0.0000	0.0007
Single Unit Long-haul Truck	Diesel	Urban Restricted	0.0028	0.0004	0.0000	0.0004
Single Unit Long-haul Truck	Diesel	Urban Unrestricted	0.0019	0.0003	0.0000	0.0003
Motor Home	Gasoline	Off-Network	0.0007	0.0009	0.0029	0.0038
Motor Home Motor Home	Gasoline Gasoline	Rural Restricted Rural Unrestricted	0.0012	0.0003	0.0000	0.0003
Motor Home	Gasoline	Urban Restricted	0.0021 0.0017	0.0006 0.0004	0.0001 0.0000	0.0007 0.0004
Motor Home	Gasoline	Urban Unrestricted	0.0017	0.0004	0.0000	0.0004
Motor Home	Diesel	Off-Network	0.0010	0.0004	0.0000	0.0004
Motor Home				0.0000	2.0000	0.0000
I MOTOL LIGHTE	Diesel	Rural Restricted	0.0010	0.0001	0.0000	0.0001
Motor Home				0.0001 0.0003	0.0000 0.0000	0.0001 0.0003

Source Type	Fuel Type	Road Type	Sheboygan W	hole County No	nattainment Area –	Year 2015
			NOx Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Motor Home	Diesel	Urban Unrestricted	0.0010	0.0002	0.0000	0.0002
Combination Short-haul Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Diesel	Off-Network	0.0000	0.0001	0.0000	0.0001
Combination Short-haul Truck	Diesel	Rural Restricted	0.0790	0.0031	0.0000	0.0031
Combination Short-haul Truck	Diesel	Rural Unrestricted	0.0738	0.0043	0.0000	0.0043
Combination Short-haul Truck	Diesel	Urban Restricted	0.0616	0.0029	0.0000	0.0029
Combination Short-haul Truck	Diesel	Urban Unrestricted	0.0258	0.0016	0.0000	0.0016
Combination Long-haul Truck	Diesel	Off-Network	0.3920	0.0887	0.0000	0.0887
Combination Long-haul Truck	Diesel	Rural Restricted	0.2778	0.0112	0.0000	0.0112
Combination Long-haul Truck	Diesel	Rural Unrestricted	0.2559	0.0112	0.0000	0.0147
Combination Long-haul Truck	Diesel	Urban Restricted	0.2142	0.0101	0.0000	0.0101
Combination Long-haul Truck	Diesel	Urban Unrestricted	0.0868	0.0052	0.0000	0.0052
Combination Long made made	2.000.		0.0000	0.0002	0.0000	0.0002
ALL	ALL	ALL	3.6972	1.0528	0.6243	1.6772
7122	7122	7.22	5.0772	1.0520	0.0213	1.0772
Motorcycle	ALL	ALL	0.0143	0.0155	0.0465	0.0620
Passenger Car	ALL	ALL	0.6894	0.3311	0.3418	0.6729
Passenger Truck	ALL	ALL	0.8236	0.3416	0.1562	0.4978
Light Commercial Truck	ALL	ALL	0.3405	0.1629	0.0645	0.2274
Intercity Bus	ALL	ALL	0.0132	0.0008	0.0043	0.0008
Transit Bus	ALL	ALL	0.0208	0.0006	0.0000	0.0016
School Bus	ALL	ALL	0.0240	0.0016	0.0000	0.0016
Refuse Truck	ALL	ALL	0.0240	0.0033	0.0000	0.0033
Single Unit Short-haul Truck	ALL	ALL	0.0279	0.0466	0.0001	0.0583
Single Unit Long-haul Truck	ALL	ALL	0.2313	0.0024	0.0004	0.0028
Motor Home	ALL	ALL	0.0132	0.0024	0.0004	0.0028
Combination Short-haul Truck	ALL	ALL	0.2402	0.0033	0.0001	0.0120
Combination Long-haul Truck	ALL	ALL	1.2267	0.1300	0.0000	0.1300
Combination Long-hadi Truck	ALL	ALL	1.2207	0.1300	0.0000	0.1300
ALL	ALL	ALL	3.6972	1.0528	0.6243	1.6772
ALL	ALL	ALL	3.0972	1.0520	0.0243	1.0772
ALL	Gasoline	ALL	1.8622	0.8573	0.6243	1.4816
ALL	Diesel	ALL	1.8324	0.1950	0.0000	0.1950
ALL	CNG	ALL	0.0017	0.1950	0.0000	0.1950
ALL	Ethanol (E-85)	ALL	0.0017	0.0003	0.0000	0.0003
ALL	Lilianoi (L-63)	ALL	0.0009	0.0003	0.0000	0.0003
ALL	ALL	ALL	3.6972	1.0528	0.6243	1.6772
ALL	ALL	ALL	3.69/2	1.0528	0.6243	1.6//2
ALL	ALL	Off-Network	0.0004	0.0012	0.5315	1 1007
	ALL	Rural Restricted	0.9084	0.6612	0.5315	1.1927
ALL			0.7647	0.0847	0.0127	0.0975
ALL	ALL	Rural Unrestricted	0.9868	0.1586	0.0445	0.2032
ALL	ALL	Urban Restricted	0.6596	0.0818	0.0153	0.0971
ALL	ALL	Urban Unrestricted	0.3777	0.0664	0.0203	0.0867
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ALL	ALL	ALL	3.6972	1.0528	0.6243	1.6772

Table 1-b: 2025 NOX and VOC Emissions: tons per summer weekday (tpswd)

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2025				
			NOx Emissions (tpswd)	VOC Emissions (tpswd)			
			Total	Exhaust	Evaporative	Total	
Motorcycle	Gasoline	Off-Network	0.0002	0.0008	0.0364	0.0373	
Motorcycle	Gasoline	Rural Restricted	0.0030	0.0022	0.0012	0.0035	
Motorcycle	Gasoline	Rural Unrestricted	0.0063	0.0060	0.0049	0.0109	
Motorcycle	Gasoline	Urban Restricted	0.0031	0.0024	0.0015	0.0039	
Motorcycle	Gasoline	Urban Unrestricted	0.0021	0.0023	0.0019	0.0042	
Passenger Car	Gasoline	Off-Network	0.0731	0.0970	0.1561	0.2530	
Passenger Car	Gasoline	Rural Restricted	0.0274	0.0055	0.0035	0.0089	
Passenger Car	Gasoline	Rural Unrestricted	0.0317	0.0070	0.0101	0.0171	
Passenger Car	Gasoline	Urban Restricted	0.0274	0.0057	0.0050	0.0107	
Passenger Car	Gasoline	Urban Unrestricted	0.0147	0.0034	0.0054	0.0088	
Passenger Car	Diesel	Off-Network	0.0006	0.0007	0.0000	0.0007	
Passenger Car	Diesel	Rural Restricted	0.0003	0.0001	0.0000	0.0001	
Passenger Car	Diesel	Rural Unrestricted	0.0003	0.0001	0.0000	0.0001	
Passenger Car	Diesel	Urban Restricted	0.0003	0.0001	0.0000	0.0001	
Passenger Car	Diesel	Urban Unrestricted	0.0002	0.0000	0.0000	0.0000	
Passenger Car	Ethanol (E-85)	Off-Network	0.0007	0.0009	0.0000	0.0009	
Passenger Car	Ethanol (E-85)	Rural Restricted	0.0002	0.0000	0.0000	0.0000	
Passenger Car	Ethanol (E-85)	Rural Unrestricted	0.0002	0.0000	0.0000	0.0000	
Passenger Car	Ethanol (E-85)	Urban Restricted	0.0002	0.0000	0.0000	0.0000	
Passenger Car	Ethanol (E-85)	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000	
Passenger Truck	Gasoline	Off-Network	0.0662	0.0754	0.0854	0.1608	
Passenger Truck	Gasoline	Rural Restricted	0.0355	0.0067	0.0023	0.0091	
Passenger Truck	Gasoline	Rural Unrestricted	0.0409	0.0081	0.0078	0.0159	
Passenger Truck	Gasoline	Urban Restricted	0.0309	0.0060	0.0031	0.0090	
Passenger Truck	Gasoline	Urban Unrestricted	0.0155	0.0032	0.0034	0.0066	
Passenger Truck	Diesel	Off-Network	0.0034	0.0007	0.0000	0.0007	
Passenger Truck	Diesel	Rural Restricted	0.0024	0.0002	0.0000	0.0002	
Passenger Truck	Diesel	Rural Unrestricted	0.0051	0.0006	0.0000	0.0006	
Passenger Truck	Diesel	Urban Restricted	0.0025	0.0003	0.0000	0.0003	
Passenger Truck	Diesel	Urban Unrestricted	0.0021	0.0002	0.0000	0.0002	
Passenger Truck	Ethanol (E-85)	Off-Network	0.0019	0.0022	0.0000	0.0022	
Passenger Truck	Ethanol (E-85)	Rural Restricted	0.0012	0.0002	0.0000	0.0002	
Passenger Truck	Ethanol (E-85)	Rural Unrestricted	0.0012	0.0002	0.0000	0.0002	
Passenger Truck	Ethanol (E-85)	Urban Restricted	0.0010	0.0002	0.0000	0.0002	
Passenger Truck	Ethanol (E-85)	Urban Unrestricted	0.0005	0.0001	0.0000	0.0001	
Light Commercial Truck	Gasoline	Off-Network	0.0249	0.0320	0.0251	0.0571	
Light Commercial Truck	Gasoline	Rural Restricted	0.0117	0.0022	0.0007	0.0029	
Light Commercial Truck	Gasoline	Rural Unrestricted	0.0156	0.0036	0.0024	0.0060	
Light Commercial Truck	Gasoline	Urban Restricted	0.0105	0.0021	0.0009	0.0030	
Light Commercial Truck	Gasoline	Urban Unrestricted	0.0059	0.0015	0.0010	0.0025	
Light Commercial Truck	Diesel	Off-Network	0.0025	0.0010	0.0000	0.0010	
Light Commercial Truck	Diesel	Rural Restricted	0.0018	0.0002	0.0000	0.0002	
Light Commercial Truck	Diesel	Rural Unrestricted	0.0038	0.0006	0.0000	0.0006	
Light Commercial Truck	Diesel	Urban Restricted	0.0019	0.0003	0.0000	0.0003	
Light Commercial Truck	Diesel	Urban Unrestricted	0.0015	0.0002	0.0000	0.0002	
Light Commercial Truck	Ethanol (E-85)	Off-Network	0.0005	0.0005	0.0000	0.0005	
Light Commercial Truck	Ethanol (E-85)	Rural Restricted	0.0003	0.0000	0.0000	0.0000	
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted	0.0003	0.0000	0.0000	0.0000	
Light Commercial Truck	Ethanol (E-85)	Urban Restricted	0.0002	0.0000	0.0000	0.0000	
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000	
Intercity Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000	
Intercity Bus	Diesel	Rural Restricted	0.0014	0.0001	0.0000	0.0001	
Intercity Bus	Diesel	Rural Unrestricted	0.0020	0.0001	0.0000	0.0001	
Intercity Bus	Diesel	Urban Restricted	0.0018	0.0001	0.0000	0.0001	
Intercity Bus	Diesel	Urban Unrestricted	0.0011	0.0001	0.0000	0.0001	

Source Type	Fuel Type	Road Type	Sheboygan W	/hole County No	nattainment Area	- Year 2025	
			NOx Emissions	VOC Emissions			
			(tpswd)		(tpswd)		
			Total	Exhaust	Evaporative	Total	
Transit Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Diesel	Rural Restricted	0.0016	0.0001	0.0000	0.0001	
Transit Bus	Diesel	Rural Unrestricted	0.0018	0.0001	0.0000	0.0001	
Transit Bus	Diesel	Urban Restricted	0.0022	0.0001	0.0000	0.0001	
Transit Bus	Diesel	Urban Unrestricted	0.0010	0.0001	0.0000	0.0001	
Transit Bus	CNG	Off-Network	0.0000	0.0000	0.0000	0.0000	
Transit Bus	CNG	Rural Restricted	0.0003	0.0000	0.0000	0.0000	
Transit Bus	CNG	Rural Unrestricted	0.0003	0.0000	0.0000	0.0000	
Transit Bus	CNG	Urban Restricted	0.0004	0.0000	0.0000	0.0000	
Transit Bus	CNG	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000	
School Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000	
School Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000	
School Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000	
School Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000	
School Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000	
School Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000	
School Bus	Diesel	Rural Restricted	0.0034	0.0003	0.0000	0.0003	
School Bus	Diesel	Rural Unrestricted	0.0038	0.0005	0.0000	0.0005	
School Bus	Diesel	Urban Restricted	0.0045	0.0005	0.0000	0.0005	
School Bus	Diesel	Urban Unrestricted	0.0021	0.0003	0.0000	0.0003	
Refuse Truck	Gasoline	Off-Network Rural Restricted	0.0000	0.0000	0.0000	0.0000	
Refuse Truck Refuse Truck	Gasoline Gasoline	Rural Restricted	0.0000 0.0000	0.0000	0.0000	0.0000	
Refuse Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000	
Refuse Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000	
Refuse Truck	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000	
Refuse Truck	Diesel	Rural Restricted	0.0004	0.0000	0.0000	0.0000	
Refuse Truck	Diesel	Rural Unrestricted	0.0024	0.0001	0.0000	0.0001	
Refuse Truck	Diesel	Urban Restricted	0.0021	0.0001	0.0000	0.0001	
Refuse Truck	Diesel	Urban Unrestricted	0.0022	0.0001	0.0000	0.0001	
Single Unit Short-haul Truck	Gasoline	Off-Network	0.0044	0.0046	0.0039	0.0086	
Single Unit Short-haul Truck	Gasoline	Rural Restricted	0.0025	0.0046	0.0003	0.0005	
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted	0.0034	0.0009	0.0002	0.0011	
Single Unit Short-haul Truck	Gasoline	Urban Restricted	0.0035	0.0007	0.0001	0.0008	
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted	0.0035	0.0007	0.0001	0.0006	
Single Unit Short-haul Truck	Diesel	Off-Network	0.0054	0.0003	0.0000	0.0003	
Single Unit Short-haul Truck	Diesel	Rural Restricted	0.0118	0.0009	0.0000	0.0009	
Single Unit Short-haul Truck	Diesel	Rural Unrestricted	0.0176	0.0019	0.0000	0.0019	
Single Unit Short-haul Truck	Diesel	Urban Restricted	0.0156	0.0014	0.0000	0.0014	
Single Unit Short-haul Truck	Diesel	Urban Unrestricted	0.0087	0.0009	0.0000	0.0009	
Single Unit Long-haul Truck	Gasoline	Off-Network	0.0001	0.0001	0.0001	0.0002	
Single Unit Long-haul Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000	
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted	0.0001	0.0000	0.0000	0.0000	
Single Unit Long-haul Truck	Gasoline	Urban Restricted	0.0001	0.0000	0.0000	0.0000	
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000	
Single Unit Long-haul Truck	Diesel	Off-Network	0.0002	0.0000	0.0000	0.0000	
Single Unit Long-haul Truck	Diesel	Rural Restricted	0.0009	0.0001	0.0000	0.0001	
Single Unit Long-haul Truck	Diesel	Rural Unrestricted	0.0013	0.0001	0.0000	0.0001	
Single Unit Long-haul Truck	Diesel	Urban Restricted	0.0012	0.0001	0.0000	0.0001	
Single Unit Long-haul Truck	Diesel	Urban Unrestricted	0.0007	0.0001	0.0000	0.0001	
Motor Home	Gasoline	Off-Network	0.0002	0.0003	0.0010	0.0013	
Motor Home	Gasoline	Rural Restricted	0.0002	0.0000	0.0000	0.0001	
Motor Home	Gasoline	Rural Unrestricted	0.0004	0.0001	0.0000	0.0001	
Motor Home	Gasoline	Urban Restricted	0.0004	0.0001	0.0000	0.0001	
Motor Home	Gasoline	Urban Unrestricted	0.0002	0.0001	0.0000	0.0001	
Motor Home	Diesel	Off-Network	0.0001	0.0000	0.0000	0.0000	
Motor Home	Diesel	Rural Restricted	0.0004	0.0000	0.0000	0.0000	
Motor Home	Diesel	Rural Unrestricted	0.0007	0.0001	0.0000	0.0001	
Motor Home	Diesel	Urban Restricted	0.0007	0.0001	0.0000	0.0001	

Source Type	Fuel Type	Road Type	Sheboygan W	Sheboygan Whole County Nonattainment Area – Year 2025			
			NOx Emissions (tpswd)		VOC Emissions (tpswd)		
			Total	Exhaust	Evaporative	Total	
Motor Home	Diesel	Urban Unrestricted	0.0004	0.0001	0.0000	0.0001	
Combination Short-haul Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000	
Combination Short-haul Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000	
Combination Short-haul Truck	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000	
Combination Short-haul Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000	
Combination Short-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000	
Combination Short-haul Truck	Diesel	Off-Network	0.0000	0.0001	0.0000	0.0001	
Combination Short-haul Truck	Diesel	Rural Restricted	0.0246	0.0008	0.0000	0.0008	
Combination Short-haul Truck	Diesel	Rural Unrestricted	0.0212	0.0011	0.0000	0.0011	
Combination Short-haul Truck	Diesel	Urban Restricted	0.0218	0.0009	0.0000	0.0009	
Combination Short-haul Truck	Diesel	Urban Unrestricted	0.0081	0.0004	0.0000	0.0004	
Combination Long-haul Truck	Diesel	Off-Network	0.3385	0.0618	0.0000	0.0618	
Combination Long-haul Truck	Diesel	Rural Restricted	0.1015	0.0036	0.0000	0.0036	
Combination Long-haul Truck	Diesel	Rural Unrestricted	0.0849	0.0044	0.0000	0.0044	
Combination Long-haul Truck	Diesel	Urban Restricted	0.0885	0.0038	0.0000	0.0038	
Combination Long-haul Truck	Diesel	Urban Unrestricted	0.0313	0.0017	0.0000	0.0017	
Combination Long made made	2.000.		0.0015	0.0017	0.0000	0.0017	
ALL	ALL	ALL	1.3223	0.3786	0.3637	0.7424	
7122	7122	7.22	1.5225	0.5700	0.5057	0.7 12 1	
Motorcycle	ALL	ALL	0.0146	0.0137	0.0460	0.0597	
Passenger Car	ALL	ALL	0.1776	0.1206	0.1800	0.3006	
Passenger Truck	ALL	ALL	0.2104	0.1200	0.1000	0.2064	
Light Commercial Truck	ALL	ALL	0.0814	0.0444	0.0301	0.0746	
Intercity Bus	ALL	ALL	0.0014	0.0004	0.0000	0.0004	
Transit Bus	ALL	ALL	0.0003	0.0004	0.0000	0.0004	
School Bus	ALL	ALL	0.0139	0.0000	0.0000	0.0007	
Refuse Truck	ALL	ALL	0.0137	0.0017	0.0000	0.00017	
Single Unit Short-haul Truck	ALL	ALL	0.073	0.0003	0.0000	0.0004	
Single Unit Long-haul Truck	ALL	ALL	0.0045	0.0006	0.0044	0.0006	
Motor Home	ALL	ALL	0.0043	0.0000	0.0001	0.0020	
Combination Short-haul Truck	ALL	ALL	0.0037	0.0003	0.0010	0.0020	
Combination Long-haul Truck	ALL	ALL	0.6446	0.0033	0.0000	0.0033	
Combination Long-hadi Truck	ALL	ALL	0.0440	0.0733	0.0000	0.0733	
ALL	ALL	ALL	1.3223	0.3786	0.3637	0.7424	
ALL	ALL	ALL	1.3223	0.3700	0.3037	0.7424	
ALL	Gasoline	ALL	0.4636	0.2811	0.3637	0.6448	
ALL	Diesel	ALL	0.4636	0.0928	0.0000	0.0928	
ALL	CNG	ALL	0.0490	0.0928	0.0000	0.0928	
ALL	Ethanol (E-85)	ALL	0.0011	0.0001	0.0000	0.0001	
ALL	Lilianoi (L-63)	ALL	0.0000	0.0046	0.0000	0.0046	
ALL	ALL	ALL	1.3223	0.3786	0.3637	0.7424	
ALL	ALL	ALL	1.3223	0.3786	0.3637	0./424	
ALL	ALL	Off-Network	0.5320	0.2705	0.2000	0.5065	
	ALL	Rural Restricted	0.5228	0.2785	0.3080	0.5865	
ALL	ALL		0.2350	0.0240	0.0079	0.0318	
ALL		Rural Unrestricted	0.2451	0.0359	0.0254	0.0613	
ALL	ALL	Urban Restricted	0.2207	0.0249	0.0107	0.0355	
ALL	ALL	Urban Unrestricted	0.0987	0.0153	0.0118	0.0272	
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ALL	ALL	ALL	1.3223	0.3786	0.3637	0.7424	

Table 1-c: 2035 NOX and VOC Emissions: tons per summer weekday (tpswd)

Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2035			
			NOx Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Motorcycle	Gasoline	Off-Network	0.0002	0.0010	0.0368	0.0378
Motorcycle	Gasoline	Rural Restricted	0.0032	0.0023	0.0013	0.0036
Motorcycle	Gasoline	Rural Unrestricted	0.0065	0.0059	0.0051	0.0110
Motorcycle	Gasoline	Urban Restricted	0.0033	0.0024	0.0016	0.0041
Motorcycle	Gasoline	Urban Unrestricted	0.0022	0.0022	0.0020	0.0042
Passenger Car	Gasoline	Off-Network	0.0338	0.0403	0.0929	0.1332
Passenger Car	Gasoline	Rural Restricted	0.0136	0.0024	0.0025	0.0048
Passenger Car	Gasoline	Rural Unrestricted	0.0103	0.0024	0.0069	0.0093
Passenger Car	Gasoline	Urban Restricted	0.0120	0.0023	0.0035	0.0058
Passenger Car	Gasoline	Urban Unrestricted	0.0045	0.0011	0.0037	0.0048
Passenger Car	Diesel	Off-Network	0.0004	0.0004	0.0000	0.0004
Passenger Car	Diesel	Rural Restricted	0.0002	0.0000	0.0000	0.0000
Passenger Car	Diesel	Rural Unrestricted	0.0001	0.0000	0.0000	0.0000
Passenger Car	Diesel	Urban Restricted	0.0002	0.0000	0.0000	0.0000
Passenger Car	Diesel	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Off-Network	0.0005	0.0006	0.0000	0.0006
Passenger Car	Ethanol (E-85)	Rural Restricted	0.0002	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Rural Unrestricted	0.0001	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Restricted	0.0002	0.0000	0.0000	0.0000
Passenger Car	Ethanol (E-85)	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000
Passenger Truck	Gasoline	Off-Network	0.0270	0.0310	0.0620	0.0930
Passenger Truck	Gasoline	Rural Restricted	0.0160	0.0028	0.0021	0.0049
Passenger Truck	Gasoline	Rural Unrestricted	0.0136	0.0028	0.0067	0.0095
Passenger Truck	Gasoline	Urban Restricted	0.0130	0.0024	0.0027	0.0051
Passenger Truck	Gasoline	Urban Unrestricted	0.0051	0.0011	0.0029	0.0040
Passenger Truck	Diesel	Off-Network	0.0030	0.0003	0.0000	0.0003
Passenger Truck	Diesel	Rural Restricted	0.0012	0.0001	0.0000	0.0001
Passenger Truck	Diesel	Rural Unrestricted	0.0025	0.0003	0.0000	0.0003
Passenger Truck	Diesel	Urban Restricted	0.0013	0.0001	0.0000	0.0001
Passenger Truck	Diesel	Urban Unrestricted	0.0010	0.0001	0.0000	0.0001
Passenger Truck	Ethanol (E-85)	Off-Network	0.0014	0.0016	0.0000	0.0016
Passenger Truck	Ethanol (E-85)	Rural Restricted	0.0008	0.0002	0.0000	0.0002
Passenger Truck	Ethanol (E-85)	Rural Unrestricted	0.0007	0.0001	0.0000	0.0001
Passenger Truck	Ethanol (E-85)	Urban Restricted	0.0007	0.0001	0.0000	0.0001
Passenger Truck	Ethanol (E-85)	Urban Unrestricted	0.0003	0.0001	0.0000	0.0001
Light Commercial Truck	Gasoline	Off-Network	0.0084	0.0094	0.0157	0.0251
Light Commercial Truck	Gasoline	Rural Restricted	0.0043	0.0007	0.0005	0.0012
Light Commercial Truck	Gasoline	Rural Unrestricted	0.0040	0.0008	0.0017	0.0025
Light Commercial Truck	Gasoline Gasoline	Urban Restricted	0.0035	0.0006	0.0007	0.0013
Light Commercial Truck		Urban Unrestricted Off-Network	0.0015	0.0003	0.0007	0.0010
Light Commercial Truck	Diesel Diesel	Rural Restricted	0.0019	0.0003	0.0000	0.0003
Light Commercial Truck			0.0007	0.0001 0.0002	0.0000	0.0001 0.0002
Light Commercial Truck	Diesel	Rural Unrestricted	0.0015		0.0000	
Light Commercial Truck Light Commercial Truck	Diesel	Urban Restricted Urban Unrestricted	0.0008	0.0001		0.0001 0.0001
Light Commercial Truck	Diesel Ethanol (E-85)	Off-Network	0.0006 0.0004	0.0001 0.0004	0.0000	0.0001
Light Commercial Truck		Rural Restricted	0.0004	0.0004	0.0000	0.0004
Light Commercial Truck	Ethanol (E-85) Ethanol (E-85)	Rural Restricted Rural Unrestricted	0.0002	0.0000	0.0000	0.0000
Light Commercial Truck	Ethanol (E-85)	Urban Restricted	0.0002	0.0000	0.0000	0.0000
Light Commercial Truck Light Commercial Truck	` '	Urban Unrestricted				
<u> </u>	Ethanol (E-85)	Off-Network	0.0001 0.0000	0.0000	0.0000	0.0000
Intercity Bus	Diesel	Rural Restricted				
Intercity Bus	Diesel		0.0005	0.0000	0.0000	0.0000
Intercity Bus	Diesel Diesel	Rural Unrestricted Urban Restricted	0.0007	0.0000		0.0000
Intercity Bus	Diesei	Olbali Restlicted	0.0006 0.0004	0.0000	0.0000	0.0000

Transit Bus	Source Type	Fuel Type	Road Type	Sheboygan V	Vhole County No	nattainment Area	a – Year 2035
Transit Bus					<u> </u>		
Transit Bus						` ' '	
Transet Bus							
Transit Bus							
Transit Bus							
Transit Bus							
Transit Bus							
Transit Bus							
Transit Bus							
Transit Bus							
Transit Bus	Transit Bus	Diesel	Urban Restricted	0.0010	0.0000	0.0000	0.0000
Transit Bus	Transit Bus	Diesel	Urban Unrestricted	0.0004	0.0000	0.0000	0.0000
Transit Bus	Transit Bus		Off-Network	0.0000	0.0000	0.0000	0.0000
Transit Bus							
Transit Bus							
School Bus							
School Bus Gasoline Rural Restricted 0.0000 0.0							
School Bus Gascline Varia Unrestricted 0.0000 0							
School Bus							
School Bus							
School Bus							
School Bus							
School Bus Diesel Urban Restricted 0.0024 0.0001 0.0000 0.0001							
School Bus	School Bus	Diesel	Rural Unrestricted	0.0019	0.0001	0.0000	0.0001
Refuse Truck	School Bus	Diesel	Urban Restricted	0.0024	0.0001	0.0000	0.0001
Refuse Truck	School Bus	Diesel	Urban Unrestricted	0.0011	0.0001	0.0000	0.0001
Refuse Truck Gasoline Rural Unrestricted 0.0000 0.0000 0.0000 Refuse Truck Gasoline Urban Restricted 0.0000 0.0000 0.0000 0.0000 Refuse Truck Gasoline Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Refuse Truck Diesel Off-Network 0.0000 0.0000 0.0000 0.0000 Refuse Truck Diesel Rural Restricted 0.0015 0.0001 0.0000 0.0000 Refuse Truck Diesel Urban Restricted 0.0016 0.0001 0.0000 0.0001 Refuse Truck Diesel Urban Unrestricted 0.0016 0.0001 0.0000 0.0001 Refuse Truck Diesel Urban Unrestricted 0.0014 0.0001 0.0000 0.0001 Single Unit Short-haul Truck Gasoline Gasoline Rural Restricted 0.0014 0.0002 0.0002 0.0008 Single Unit Short-haul Truck Gasoline Urban Restricted 0.0027 0.0000 0.0001		Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Refuse Truck							
Refuse Truck Gasoline Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Refuse Truck Diesel Off-Network 0.0000 0.0000 0.0000 0.0000 Refuse Truck Diesel Rural Restricted 0.0017 0.0001 0.0000 0.0000 Refuse Truck Diesel Rural Unrestricted 0.0015 0.0001 0.0000 0.0001 Refuse Truck Diesel Urban Restricted 0.0016 0.0001 0.0000 0.0001 Refuse Truck Diesel Urban Unrestricted 0.0006 0.0000 0.0000 0.0001 Single Unit Short-haul Truck Gasoline Off-Network 0.0014 0.0020 0.0024 0.0044 Single Unit Short-haul Truck Gasoline Rural Restricted 0.0024 0.0006 0.0002 0.0002 Single Unit Short-haul Truck Gasoline Urban Restricted 0.0027 0.0005 0.0001 0.0006 Single Unit Short-haul Truck Diesel Off-Network 0.0057 0.0002 <							
Refuse Truck Diesel Off-Network 0.0000 0.0000 0.0000 Refuse Truck Diesel Rural Restricted 0.0015 0.0000 0.0000 0.0000 Refuse Truck Diesel Rural Unrestricted 0.0015 0.0001 0.0000 0.0001 Refuse Truck Diesel Urban Restricted 0.0016 0.0001 0.0000 0.0001 Refuse Truck Diesel Urban Unrestricted 0.0016 0.0001 0.0000 0.0001 Refuse Truck Diesel Urban Unrestricted 0.0014 0.0002 0.0004 0.0004 Single Unit Short-haul Truck Gasoline Rural Restricted 0.0019 0.0003 0.0001 0.0004 Single Unit Short-haul Truck Gasoline Rural Unrestricted 0.0027 0.0005 0.0001 0.0006 Single Unit Short-haul Truck Gasoline Urban Unrestricted 0.0011 0.0004 0.0001 0.0006 Single Unit Short-haul Truck Diesel Rural Restricted 0.0007 0.0002 0.0000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Refuse Truck Diesel Rural Restricted 0.0017 0.0000 0.0000 Refuse Truck Diesel Rural Unrestricted 0.0115 0.0001 0.0000 0.0001 Refuse Truck Diesel Urban Restricted 0.0016 0.0001 0.0000 0.0001 Refuse Truck Diesel Urban Unrestricted 0.0006 0.0000 0.0000 0.0000 Single Unit Short-haul Truck Gasoline Rural Restricted 0.0014 0.0022 0.0024 0.0004 Single Unit Short-haul Truck Gasoline Rural Unrestricted 0.0024 0.0006 0.0002 0.0008 Single Unit Short-haul Truck Gasoline Urban Restricted 0.0027 0.0005 0.0001 0.0008 Single Unit Short-haul Truck Gasoline Urban Unrestricted 0.0011 0.0004 0.0001 0.0004 Single Unit Short-haul Truck Diesel Off-Network 0.0057 0.0002 0.0000 0.0002 Single Unit Short-haul Truck Diesel Rural Unrestricted 0.0080 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Refuse Truck Diesel Rural Unrestricted 0.0015 0.0001 0.0000 0.0001							
Refuse Truck Diesel Urban Restricted 0.0016 0.0001 0.0000 0.00001							
Refuse Truck							
Single Unit Short-haul Truck Gasoline Off-Network O.0014 O.0020 O.0024 O.0044							
Single Unit Short-haul Truck Gasoline Rural Restricted 0.0019 0.0003 0.0001 0.0004 Single Unit Short-haul Truck Gasoline Rural Unrestricted 0.0024 0.0006 0.0002 0.0008 Single Unit Short-haul Truck Gasoline Urban Restricted 0.0027 0.0005 0.0001 0.0006 Single Unit Short-haul Truck Gasoline Urban Unrestricted 0.0011 0.0004 0.0001 0.0004 Single Unit Short-haul Truck Diesel Off-Network 0.0057 0.0002 0.0000 0.0002 Single Unit Short-haul Truck Diesel Rural Restricted 0.0080 0.0005 0.0000 0.0001 Single Unit Short-haul Truck Diesel Urban Restricted 0.0118 0.0010 0.0000 0.0001 Single Unit Short-haul Truck Diesel Urban Restricted 0.0110 0.0008 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Off-Network 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gaso							
Single Unit Short-haul Truck Gasoline Urban Restricted 0.0027 0.0005 0.0001 0.0006 Single Unit Short-haul Truck Gasoline Urban Unrestricted 0.0011 0.0004 0.0001 0.0004 Single Unit Short-haul Truck Diesel Off-Network 0.0057 0.0002 0.0000 0.0000 Single Unit Short-haul Truck Diesel Rural Unrestricted 0.0118 0.0010 0.0000 0.0001 Single Unit Short-haul Truck Diesel Urban Restricted 0.0110 0.0008 0.0000 0.0000 Single Unit Short-haul Truck Diesel Urban Unrestricted 0.0110 0.0008 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Off-Network 0.0009 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Ga		Gasoline	Rural Restricted	0.0019	0.0003	0.0001	0.0004
Single Unit Short-haul Truck Gasoline Urban Unrestricted 0.0011 0.0004 0.0001 0.0004 Single Unit Short-haul Truck Diesel Off-Network 0.0057 0.0002 0.0000 0.0002 Single Unit Short-haul Truck Diesel Rural Restricted 0.0088 0.0005 0.0000 0.0005 Single Unit Short-haul Truck Diesel Urban Restricted 0.0118 0.0010 0.0000 0.0000 Single Unit Short-haul Truck Diesel Urban Restricted 0.0110 0.0008 0.0000 0.0000 Single Unit Short-haul Truck Diesel Urban Unrestricted 0.0059 0.0005 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Off-Network 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Almestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel	Single Unit Short-haul Truck	Gasoline	Rural Unrestricted	0.0024	0.0006	0.0002	0.0008
Single Unit Short-haul Truck Diesel Off-Network 0.0057 0.0002 0.0000 0.0002 Single Unit Short-haul Truck Diesel Rural Restricted 0.0080 0.0005 0.0000 0.0005 Single Unit Short-haul Truck Diesel Rural Unrestricted 0.0118 0.0010 0.0000 0.0001 Single Unit Short-haul Truck Diesel Urban Arestricted 0.0110 0.0008 0.0000 0.0000 0.0000 Single Unit Short-haul Truck Diesel Urban Unrestricted 0.0059 0.0005 0.0000	Single Unit Short-haul Truck	Gasoline		0.0027	0.0005	0.0001	0.0006
Single Unit Short-haul Truck Diesel Rural Restricted 0.0080 0.0005 0.0000 0.0005 Single Unit Short-haul Truck Diesel Rural Unrestricted 0.0118 0.0010 0.0000 0.0010 Single Unit Short-haul Truck Diesel Urban Restricted 0.0110 0.0008 0.0000 0.0008 Single Unit Short-haul Truck Diesel Urban Unrestricted 0.0059 0.0005 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Off-Network 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Off-Network 0.0002 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Single Unit Short-haul Truck Diesel Rural Unrestricted 0.0118 0.0010 0.0000 0.0010 Single Unit Short-haul Truck Diesel Urban Restricted 0.0110 0.0008 0.0000 0.0008 Single Unit Short-haul Truck Diesel Urban Unrestricted 0.0059 0.0005 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Off-Network 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Off-Network 0.0002 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Restricted 0.0006 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel<							
Single Unit Short-haul Truck Diesel Urban Restricted 0.0110 0.0008 0.0000 0.0008 Single Unit Short-haul Truck Diesel Urban Unrestricted 0.0059 0.0005 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Off-Network 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Off-Network 0.0002 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Restricted 0.0006 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Single Unit Short-haul Truck Diesel Urban Unrestricted 0.0059 0.0005 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Off-Network 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Off-Network 0.0002 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Restricted 0.0006 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0001 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Single Unit Long-haul Truck Gasoline Off-Network 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Off-Network 0.0002 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Restricted 0.0006 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel Urban Restricted 0.0001 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel <td></td> <td></td> <td>II.</td> <td></td> <td></td> <td></td> <td></td>			II.				
Single Unit Long-haul Truck Gasoline Rural Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Rural Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Off-Network 0.0002 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0001 Single Unit Long-haul Truck Diesel Urban Restricted 0.0009 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel Urban Unrestricted 0.0005 0.0000 0.0000 0.0000 Motor Home Gasoline							
Single Unit Long-haul Truck Gasoline Rural Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Restricted 0.0006 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0001 Single Unit Long-haul Truck Diesel Urban Restricted 0.0009 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel Urban Unrestricted 0.0009 0.0001 0.0000 0.0000 Motor Home Gasoline Gasoline Rural Restricted 0.0001 0.0001 0.0000 0.0000 Motor Home Gasoli							
Single Unit Long-haul Truck Gasoline Urban Restricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Gasoline Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Off-Network 0.0002 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Restricted 0.0010 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0001 Single Unit Long-haul Truck Diesel Urban Restricted 0.0009 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel Urban Unrestricted 0.0009 0.0001 0.0000 0.0000 Motor Home Gasoline Off-Network 0.0001 0.0001 0.0000 0.0000 Motor Home Gasoline Rural Unrestricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Restricted 0							
Single Unit Long-haul Truck Diesel Off-Network 0.0002 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Restricted 0.0006 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0001 Single Unit Long-haul Truck Diesel Urban Restricted 0.0009 0.0001 0.0000 0.0000 Single Unit Long-haul Truck Diesel Urban Unrestricted 0.0005 0.0000 0.0000 0.0000 Motor Home Gasoline Off-Network 0.0001 0.0001 0.0005 0.0000 Motor Home Gasoline Rural Restricted 0.0001 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Restricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Unrestricted 0.0001 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Unrestricted 0.0001 0.0000		Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Single Unit Long-haul Truck Diesel Rural Restricted 0.0006 0.0000 0.0000 0.0000 Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0001 Single Unit Long-haul Truck Diesel Urban Restricted 0.0009 0.0001 0.0000 0.0001 Single Unit Long-haul Truck Diesel Urban Unrestricted 0.0005 0.0000 0.0000 0.0000 Motor Home Gasoline Off-Network 0.0001 0.0001 0.0005 0.0000 Motor Home Gasoline Rural Restricted 0.0001 0.0000 0.0000 0.0000 Motor Home Gasoline Rural Unrestricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Restricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Unrestricted 0.0001 0.0000 0.0000 0.0000	Single Unit Long-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Single Unit Long-haul Truck Diesel Rural Unrestricted 0.0010 0.0001 0.0000 0.0001 Single Unit Long-haul Truck Diesel Urban Restricted 0.0009 0.0001 0.0000 0.0001 Single Unit Long-haul Truck Diesel Urban Unrestricted 0.0005 0.0000 0.0000 0.0000 Motor Home Gasoline Off-Network 0.0001 0.0001 0.0005 0.0006 Motor Home Gasoline Rural Restricted 0.0001 0.0000 0.0000 0.0000 Motor Home Gasoline Rural Unrestricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Restricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Unrestricted 0.0001 0.0000 0.0000 0.0000		Diesel	Off-Network	0.0002	0.0000	0.0000	0.0000
Single Unit Long-haul Truck Diesel Urban Restricted 0.0009 0.0001 0.0000 0.0001 Single Unit Long-haul Truck Diesel Urban Unrestricted 0.0005 0.0000 0.0000 0.0000 Motor Home Gasoline Off-Network 0.0001 0.0001 0.0005 0.0006 Motor Home Gasoline Rural Restricted 0.0001 0.0000 0.0000 0.0000 Motor Home Gasoline Rural Unrestricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Restricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Unrestricted 0.0001 0.0000 0.0000 0.0000			II.				
Single Unit Long-haul Truck Diesel Urban Unrestricted 0.0005 0.0000 0.0000 0.0000 Motor Home Gasoline Off-Network 0.0001 0.0001 0.0005 0.0006 Motor Home Gasoline Rural Restricted 0.0001 0.0000 0.0000 0.0000 Motor Home Gasoline Rural Unrestricted 0.0002 0.0000 0.0000 0.0001 Motor Home Gasoline Urban Restricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Unrestricted 0.0001 0.0000 0.0000 0.0000							
Motor Home Gasoline Off-Network 0.0001 0.0001 0.0005 0.0006 Motor Home Gasoline Rural Restricted 0.0001 0.0000 0.0000 0.0000 Motor Home Gasoline Rural Unrestricted 0.0002 0.0000 0.0000 0.0001 Motor Home Gasoline Urban Restricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Unrestricted 0.0001 0.0000 0.0000 0.0000	5 5						
Motor Home Gasoline Rural Restricted 0.0001 0.0000 0.0000 0.0000 Motor Home Gasoline Rural Unrestricted 0.0002 0.0000 0.0000 0.0001 Motor Home Gasoline Urban Restricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Unrestricted 0.0001 0.0000 0.0000 0.0000							
Motor Home Gasoline Rural Unrestricted 0.0002 0.0000 0.0000 0.0001 Motor Home Gasoline Urban Restricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Unrestricted 0.0001 0.0000 0.0000 0.0000							
Motor Home Gasoline Urban Restricted 0.0002 0.0000 0.0000 0.0000 Motor Home Gasoline Urban Unrestricted 0.0001 0.0000 0.0000 0.0000							
Motor Home Gasoline Urban Unrestricted 0.0001 0.0000 0.0000 0.0000							
Motor Home Diesel Off-Network 0,0001 0.0000 0.0000 0.0000 0.0000	Motor Home	Diesel	Off-Network	0.0001	0.0000	0.0000	0.0000
Motor Home Diesel Rural Restricted 0.0002 0.0000 0.0000 0.0000							
Motor Home Diesel Rural Unrestricted 0.0003 0.0000 0.0000 0.0000							
Motor Home Diesel Urban Restricted 0.0003 0.0000 0.0000 0.0000	Motor Home	Diesel	Urban Restricted	0.0003	0.0000	0.0000	0.0000

Source Type	Fuel Type	Road Type	Sheboygan W	Sheboygan Whole County Nonattainment Area – Year 2035			
			NOx Emissions (tpswd)		VOC Emissions (tpswd)		
			Total	Exhaust	Evaporative	Total	
Motor Home	Diesel	Urban Unrestricted	0.0002	0.0000	0.0000	0.0000	
Combination Short-haul Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000	
Combination Short-haul Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000	
Combination Short-haul Truck	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000	
Combination Short-haul Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000	
Combination Short-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000	
Combination Short-haul Truck	Diesel	Off-Network	0.0000	0.0001	0.0000	0.0001	
Combination Short-haul Truck	Diesel	Rural Restricted	0.0169	0.0004	0.0000	0.0004	
Combination Short-haul Truck	Diesel	Rural Unrestricted	0.0146	0.0006	0.0000	0.0006	
Combination Short-haul Truck	Diesel	Urban Restricted	0.0157	0.0005	0.0000	0.0005	
Combination Short-haul Truck	Diesel	Urban Unrestricted	0.0056	0.0002	0.0000	0.0002	
Combination Long-haul Truck	Diesel	Off-Network	0.3591	0.0594	0.0000	0.0594	
Combination Long-haul Truck	Diesel	Rural Restricted	0.0531	0.0014	0.0000	0.0014	
Combination Long-haul Truck	Diesel	Rural Unrestricted	0.0444	0.0011	0.0000	0.0018	
Combination Long-haul Truck	Diesel	Urban Restricted	0.0480	0.0016	0.0000	0.0016	
Combination Long-haul Truck	Diesel	Urban Unrestricted	0.0167	0.0007	0.0000	0.0007	
ALL	ALL	ALL	0.8568	0.1947	0.2555	0.4501	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7.==	0.0000	0.1717	0.2000	0.1501	
Motorcycle	ALL	ALL	0.0155	0.0138	0.0469	0.0606	
Passenger Car	ALL	ALL	0.0763	0.0496	0.1095	0.1592	
Passenger Truck	ALL	ALL	0.0876	0.0433	0.0763	0.1196	
Light Commercial Truck	ALL	ALL	0.0282	0.0130	0.0194	0.0324	
Intercity Bus	ALL	ALL	0.0022	0.0001	0.0000	0.0001	
Transit Bus	ALL	ALL	0.0038	0.0002	0.0000	0.0002	
School Bus	ALL	ALL	0.0070	0.0002	0.0000	0.0002	
Refuse Truck	ALL	ALL	0.0054	0.0004	0.0000	0.0004	
Single Unit Short-haul Truck	ALL	ALL	0.0519	0.0067	0.0029	0.0002	
Single Unit Long-haul Truck	ALL	ALL	0.0032	0.0002	0.0000	0.0002	
Motor Home	ALL	ALL	0.0018	0.0002	0.0005	0.0002	
Combination Short-haul Truck	ALL	ALL	0.0528	0.0019	0.0000	0.0019	
Combination Long-haul Truck	ALL	ALL	0.5212	0.0649	0.0000	0.0649	
Combination Long Hadi Track	//LL	/ CE	0.3212	0.0017	0.0000	0.0017	
ALL	ALL	ALL	0.8568	0.1947	0.2555	0.4501	
/ LL	//LL	/ CE	0.0300	0.1747	0.2333	0.4301	
ALL	Gasoline	ALL	0.1964	0.1183	0.2555	0.3737	
ALL	Diesel	ALL	0.6539	0.0730	0.0000	0.0730	
ALL	CNG	ALL	0.0008	0.0001	0.0000	0.0001	
ALL	Ethanol (E-85)	ALL	0.0057	0.0033	0.0000	0.0033	
	(_ 00)		0.0037	0.0033	0.0000	0.0033	
ALL	ALL	ALL	0.8568	0.1947	0.2555	0.4501	
	7.22		0.0300	0.1747	0.2333	0.7301	
ALL	ALL	Off-Network	0.4436	0.1472	0.2104	0.3576	
ALL	ALL	Rural Restricted	0.1260	0.1472	0.0065	0.0179	
ALL	ALL	Rural Unrestricted	0.1200	0.0114	0.0003	0.0179	
ALL	ALL	Urban Restricted	0.1193	0.0170	0.0203	0.0376	
ALL	ALL	Urban Unrestricted	0.0481	0.0071	0.0087	0.0206	
/ LL	ALL	Orban Officatioled	0.0401	0.0071	0.0074	0.0103	
ALL	ALL	ALL	0.8568	0.1947	0.2555	0.4501	
ALL	ALL	\LL	0.000	0.194/	0.2333	0.4501	

Table 1-d: 2045 NOX and VOC Emissions: tons per summer weekday (tpswd)

Motorcycle	Source Type	Fuel Type	Road Type	Sheboygan Whole County Nonattainment Area – Year 2045				
Motorcycle								
Motorcycle					Exhaust	Evaporative	Total	
Motorcycle	Motorcycle	Gasoline	Off-Network	0.0002	0.0011	0.0381	0.0392	
Motorcycle	Motorcycle	Gasoline	Rural Restricted	0.0035	0.0024	0.0014	0.0039	
Motorcycle	Motorcycle	Gasoline	Rural Unrestricted	0.0070	0.0063	0.0054	0.0117	
Passenger Car	Motorcycle	Gasoline	Urban Restricted	0.0036	0.0026	0.0017	0.0044	
Passenger Car Gasoline Rural Restricted 0.0126 0.0020 0.0025 0.0040 Passenger Car Gasoline Rural Unrestricted 0.0106 0.0020 0.0036 0.0059 Passenger Car Gasoline Urban Unrestricted 0.0137 0.0010 0.0035 0.0059 Passenger Car Diesel Off-Network 0.0004 0.0004 0.0000 0.0008 Passenger Car Diesel Rural Restricted 0.0001 0.0000 <td>Motorcycle</td> <td>Gasoline</td> <td>Urban Unrestricted</td> <td>0.0024</td> <td>0.0024</td> <td>0.0021</td> <td>0.0045</td>	Motorcycle	Gasoline	Urban Unrestricted	0.0024	0.0024	0.0021	0.0045	
Passenger Car Gasoline Rural Unrestricted 0.0096 0.0020 0.0070 0.0070 Passenger Car Gasoline Uban Restricted 0.0110 0.0037 0.0010 0.0037 Passenger Car Gasoline Uban Intestricted 0.0037 0.0010 0.0000 0.0000 Passenger Car Diesel Rural Restricted 0.0002 0.0000 0.0000 0.0000 Passenger Car Diesel Rural Unrestricted 0.0001 0.0000 0.0000 Passenger Car Diesel Urban Unrestricted 0.0001 0.0000 0.0000 Passenger Car Diesel Urban Unrestricted 0.0001 0.0000 0.0000 Passenger Car Eithanol (E-85) Olf-Network 0.0003 0.0000 0.0000 Passenger Car Eithanol (E-85) Nural Unrestricted 0.0001 0.0000 0.0000 Passenger Car Eithanol (E-85) Nural Unrestricted 0.0001 0.0000 0.0000 Passenger Car Eithanol (E-85) Nural Restricted	Passenger Car	Gasoline	Off-Network	0.0305	0.0336	0.0894	0.1230	
Passenger Car Gasoline Rural Unrestricted 0.0086 0.0020 0.0070 0.0090 Passenger Car Gasoline Urban Restricted 0.0110 0.0037 0.0010 0.0037 0.0018 0.0037 0.0019 0.0037 0.0019 0.0000	Passenger Car	Gasoline	Rural Restricted	0.0126	0.0020	0.0025	0.0045	
Passenger Car Gasoline Urban Restricted 0.0110 0.0020 0.0036 0.005 Passenger Car Gasoline Urban Unrestricted 0.0037 0.0010 0.0000 0.0000 Passenger Car Diesel Off-Network 0.0004 0.0000 0.0000 Passenger Car Diesel Rural Unrestricted 0.0001 0.0000 0.0000 Passenger Car Diesel Urban Unrestricted 0.0001 0.0000 0.0000 Passenger Car Diesel Urban Unrestricted 0.0001 0.0000 0.0000 Passenger Car Diesel Urban Unrestricted 0.0001 0.0000 0.0000 Passenger Car Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 Passenger Car Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 Passenger Car Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 Passenger Car Ethanol (E-85) Urban Unrestricted 0.0001 0.0000	Passenger Car	Gasoline	Rural Unrestricted		0.0020	0.0070	0.0090	
Passenger Car Diesel Off-Network 0.0004 0.0000	Passenger Car	Gasoline	Urban Restricted				0.0056	
Passenger Car Diesel Off-Network 0.0004 0.0004 0.0000 0.0000 Passenger Car Diesel Rural Restricted 0.0001 0.0000 0.0000 0.0000 Passenger Car Diesel Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 Passenger Car Diesel Urban Unrestricted 0.0001 0.0000 0.0000 0.0000 Passenger Car Ethanol (E-85) Bural Restricted 0.0001 0.0000 0.0000 0.0000 Passenger Car Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 0.0000 Passenger Car Ethanol (E-85) Bural Exerticed 0.0001 0.0000 0.0000 0.0000 Passenger Truck Gasoline Sural Fusivited 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0	Passenger Car	Gasoline	Urban Unrestricted	0.0037	0.0010	0.0037	0.0047	
Passenger Car Diesel Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 Passenger Car Diesel Urban Restricted 0.0002 0.0000 0.0	Passenger Car	Diesel	Off-Network	0.0004	0.0004	0.0000	0.0004	
Passenger Car Diesel Urban Restricted 0.0001 0.0000 0.0000 Passenger Car Diese Urban News 0.0001 0.0000 0.0000 0.0000 Passenger Car Elthanol (E-85) Off-Network 0.0003 0.0004 0.0000 0.0000 Passenger Car Elthanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 0.0000 Passenger Car Elthanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 Passenger Car Elthanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 Passenger Truck Gasoline Urban Restricted 0.0001 0.0000 0.0000 Passenger Truck Gasoline Rural Restricted 0.0125 0.0019 0.0021 Passenger Truck Gasoline Rural Bestricted 0.0125 0.0011 0.0068 0.0088 Passenger Truck Gasoline Rural Unrestricted 0.0036 0.0021 0.0068 0.0081 Passenger Truck Diesel Rura	Passenger Car	Diesel	Rural Restricted	0.0002	0.0000	0.0000	0.0000	
Passenger Car Diesel Urban Restricted 0.0001 0.0000 0.0000 Passenger Car Diese Urban Unrestricted 0.0001 0.0000 0.0000 0.0000 Passenger Car Ethanol (E-85) Off-Network 0.0003 0.0004 0.0000 0.0000 Passenger Car Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 0.0000 Passenger Car Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Passenger Car Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Passenger Truck Gasoline Rural Restricted 0.0000		Diesel	Rural Unrestricted	 	0.0000	0.0000	0.0000	
Passenger Car		Diesel	Urban Restricted	0.0002	0.0000	0.0000	0.0000	
Passenger Car Ethanol (E-85) Off-Network 0.0003 0.0004 0.0000 0.0000 Passenger Car Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 0.0000 Passenger Car Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 Passenger Car Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 Passenger Truck Gasoline Off-Network 0.0223 0.0236 0.0585 0.082 Passenger Truck Gasoline Rural Restricted 0.0125 0.0019 0.0021 0.0068 0.0081 Passenger Truck Gasoline Rural Unrestricted 0.0095 0.0021 0.0068 0.0081 Passenger Truck Gasoline Urban Nestricted 0.0036 0.0002 0.003 Passenger Truck Diesel Off-Network 0.0331 0.0003 0.0000 0.000 Passenger Truck Diesel Rural Restricted 0.0010 0.0000 0.000 Passenger Truck <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0000</td>							0.0000	
Passenger Car Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 Passenger Car Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 Passenger Car Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 Passenger Truck Gasoline Off-Network 0.0223 0.0236 0.0585 0.0828 Passenger Truck Gasoline Rural Restricted 0.0125 0.0019 0.0021 0.004 Passenger Truck Gasoline Rural Unrestricted 0.0095 0.0021 0.0068 0.008 Passenger Truck Gasoline Urban Restricted 0.0011 0.0011 0.0022 0.004 Passenger Truck Gasoline Urban Unrestricted 0.0036 0.0008 0.0029 0.003 Passenger Truck Diesel Olf-Network 0.0031 0.0003 0.0000 0.000 Passenger Truck Diesel Rural Restricted 0.0010 0.0001 0.0000 0.000 Passenger Truck </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0004</td>							0.0004	
Passenger Car Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 Passenger Car Ethanol (E-85) Urban Durestricted 0.0001 0.0000 0.0000 0.0000 Passenger Truck Gasoline Off-Network 0.0223 0.0236 0.0585 0.082 Passenger Truck Gasoline Rural Restricted 0.01125 0.0019 0.0021 0.004 Passenger Truck Gasoline Rural Unrestricted 0.0095 0.0021 0.0068 0.008 Passenger Truck Gasoline Urban Pastricted 0.0011 0.0017 0.0044 Passenger Truck Gasoline Urban Pastricted 0.0036 0.0008 0.0029 0.003 Passenger Truck Diesel Rural Restricted 0.0010 0.0000 0.000 0.000 Passenger Truck Diesel Rural Restricted 0.0011 0.0001 0.0000 0.000 Passenger Truck Diesel Vrban Pastricted 0.0011 0.0001 0.000 0.000		` '					0.0000	
Passenger Car				 			0.0000	
Passenger Truck	•	. ,					0.0000	
Passenger Truck Gasoline Off-Network 0.0223 0.0236 0.0585 0.082 Passenger Truck Gasoline Rural Restricted 0.0125 0.0019 0.0021 0.0068 Passenger Truck Gasoline Rural Unrestricted 0.0005 0.0021 0.0068 0.0088 Passenger Truck Gasoline Urban Restricted 0.0101 0.0017 0.0027 0.0043 Passenger Truck Gasoline Urban Urban Virture Stricted 0.0031 0.0008 0.0029 0.0033 Passenger Truck Diesel Rural Restricted 0.0031 0.0003 0.0000 0.0000 Passenger Truck Diesel Rural Unrestricted 0.0021 0.0003 0.0000 0.0000 Passenger Truck Diesel Urban Restricted 0.0011 0.0001 0.0000 0.0000 Passenger Truck Diesel Urban Urrestricted 0.0001 0.0001 0.0000 0.0000 Passenger Truck Ethanol (E-85) Off-Network 0.0009 0.0000 0.000		` '		 			0.0000	
Passenger Truck								
Passenger Truck								
Passenger Truck Gasoline Urban Restricted 0.0101 0.0017 0.0027 0.0044 Passenger Truck Gasoline Urban Unrestricted 0.0036 0.0008 0.0029 0.003 Passenger Truck Diesel Off-Network 0.0031 0.0003 0.0000 0.0000 Passenger Truck Diesel Rural Restricted 0.0011 0.0001 0.0000 0.0000 Passenger Truck Diesel Urban Restricted 0.0011 0.0001 0.0000 0.0000 Passenger Truck Diesel Urban Nestricted 0.0011 0.0001 0.0000 0.0000 Passenger Truck Diesel Urban Unrestricted 0.0009 0.0001 0.0000 0.000 Passenger Truck Ethanol (E-85) Rural Restricted 0.0009 0.0001 0.0000 0.000 Passenger Truck Ethanol (E-85) Rural Unrestricted 0.0004 0.0001 0.0000 0.000 Passenger Truck Ethanol (E-85) Rural Unrestricted 0.0004 0.0001 0.0								
Passenger Truck Gasoline Urban Unrestricted 0.0036 0.0008 0.0029 0.0037 Passenger Truck Diesel Off-Network 0.0031 0.0003 0.0000 0.0000 Passenger Truck Diesel Rural Restricted 0.0011 0.0001 0.0000 0.0000 Passenger Truck Diesel Urban Restricted 0.0011 0.0001 0.0000 0.0000 Passenger Truck Diesel Urban Unrestricted 0.0001 0.0001 0.0000 0.000 Passenger Truck Diesel Urban Unrestricted 0.0009 0.0001 0.0000 0.000 Passenger Truck Ethanol (E-85) Off-Network 0.0009 0.0009 0.0000 0.000 Passenger Truck Ethanol (E-85) Rural Unrestricted 0.0005 0.0001 0.0000 0.000 Passenger Truck Ethanol (E-85) Urban Restricted 0.0004 0.0001 0.0000 0.000 Passenger Truck Ethanol (E-85) Urban Unrestricted 0.0004 0.0001 0	•			 				
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Passenger Truck Diesel Rural Restricted 0.0010 0.0001 0.0000				 			0.0003	
Passenger Truck Diesel Rural Unrestricted 0.0023 0.0003 0.0000 0.0000							0.0001	
Passenger Truck Diesel Urban Restricted 0.0011 0.0001 0.0000 0.0000							0.0003	
Passenger Truck								
Passenger Truck								
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Passenger Truck		` '						
Passenger Truck Ethanol (E-85) Urban Restricted 0.0004 0.0001 0.0000 0.0000 Passenger Truck Ethanol (E-85) Urban Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Gasoline Off-Network 0.0068 0.0075 0.0154 0.022 Light Commercial Truck Gasoline Rural Restricted 0.0034 0.0005 0.0006 0.0011 Light Commercial Truck Gasoline Rural Unrestricted 0.0028 0.0006 0.0018 0.002 Light Commercial Truck Gasoline Urban Restricted 0.0027 0.0005 0.0007 0.001 Light Commercial Truck Gasoline Urban Restricted 0.0010 0.0002 0.0008 0.001 Light Commercial Truck Diesel Off-Network 0.0020 0.0002 0.0000 0.000 Light Commercial Truck Diesel Rural Hrestricted 0.0013 0.0002 0.0000 0.0000 Light Commercial Truck Diesel Urban Restricted 0.0006								
Passenger Truck	-							
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Light Commercial Truck Gasoline Rural Restricted 0.0034 0.0005 0.0006 0.001 Light Commercial Truck Gasoline Rural Unrestricted 0.0028 0.0006 0.0018 0.002 Light Commercial Truck Gasoline Urban Restricted 0.0027 0.0005 0.0007 0.001 Light Commercial Truck Gasoline Urban Unrestricted 0.0010 0.0002 0.0008 0.001 Light Commercial Truck Diesel Off-Network 0.0020 0.0002 0.0000 0.0000 Light Commercial Truck Diesel Rural Restricted 0.0006 0.0001 0.0000 0.0000 Light Commercial Truck Diesel Urban Restricted 0.0006 0.0001 0.0000 0.0000 Light Commercial Truck Diesel Urban Unrestricted 0.0006 0.0001 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Off-Network 0.0002 0.0001 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Restricted								
Light Commercial Truck Gasoline Rural Unrestricted 0.0028 0.0006 0.0018 0.0022 Light Commercial Truck Gasoline Urban Restricted 0.0027 0.0005 0.0007 0.0011 Light Commercial Truck Gasoline Urban Unrestricted 0.0010 0.0002 0.0008 0.0011 Light Commercial Truck Diesel Off-Network 0.0020 0.0002 0.0000 0.0000 Light Commercial Truck Diesel Rural Restricted 0.0006 0.0001 0.0000 0.0000 Light Commercial Truck Diesel Rural Unrestricted 0.0013 0.0002 0.0000 0.0000 Light Commercial Truck Diesel Urban Restricted 0.0006 0.0001 0.0000 0.0000 Light Commercial Truck Diesel Urban Unrestricted 0.0005 0.0001 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Off-Network 0.0002 0.0003 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Unrestricted <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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Light Commercial Truck Diesel Off-Network 0.0020 0.0002 0.0000 0.0000 Light Commercial Truck Diesel Rural Restricted 0.0006 0.0001 0.0000 0.0000 Light Commercial Truck Diesel Rural Unrestricted 0.0013 0.0002 0.0000 0.0000 Light Commercial Truck Diesel Urban Restricted 0.0006 0.0001 0.0000 0.0000 Light Commercial Truck Diesel Urban Unrestricted 0.0005 0.0001 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Off-Network 0.0002 0.0003 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban	3			 			0.0012	
Light Commercial Truck Diesel Rural Restricted 0.0006 0.0001 0.0000 0.0000 Light Commercial Truck Diesel Rural Unrestricted 0.0013 0.0002 0.0000 0.0000 Light Commercial Truck Diesel Urban Restricted 0.0006 0.0001 0.0000 0.0000 Light Commercial Truck Diesel Urban Unrestricted 0.0005 0.0001 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Off-Network 0.0002 0.0003 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85)	-							
Light Commercial Truck Diesel Rural Unrestricted 0.0013 0.0002 0.0000 0.0000 Light Commercial Truck Diesel Urban Restricted 0.0006 0.0001 0.0000 0.0000 Light Commercial Truck Diesel Urban Unrestricted 0.0005 0.0001 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Off-Network 0.0002 0.0003 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel	_ •						0.0001	
Light Commercial Truck Diesel Urban Restricted 0.0006 0.0001 0.0000 0.0000 Light Commercial Truck Diesel Urban Unrestricted 0.0005 0.0001 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Off-Network 0.0002 0.0003 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 0.0000 Intercity Bus				 			0.0001	
Light Commercial Truck Diesel Urban Unrestricted 0.0005 0.0001 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Off-Network 0.0002 0.0003 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Restricted 0.0004 0.0000 0.0000 0.0000 Intercity Bus Diesel <td< td=""><td>3</td><td></td><td></td><td></td><td></td><td></td><td>0.0001</td></td<>	3						0.0001	
Light Commercial Truck Ethanol (E-85) Off-Network 0.0002 0.0003 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Off-Network 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Unrestricted 0.0006 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Unrestricted 0.0006 0.0000 0.0000 0.0000 Intercity Bus Diesel Urban Restricted 0.0006 0.0000 0.0000 0.0000	0			 			0.0001	
Light Commercial Truck Ethanol (E-85) Rural Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Off-Network 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Unrestricted 0.0006 0.0000 0.0000 0.0000 Intercity Bus Diesel Urban Restricted 0.0006 0.0000 0.0000 0.0000 Intercity Bus Diesel Urban Restricted 0.0006 0.0000 0.0000 0.0000	-						0.0001	
Light Commercial Truck Ethanol (E-85) Rural Unrestricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Off-Network 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Restricted 0.0006 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Unrestricted 0.0006 0.0000 0.0000 0.0000 Intercity Bus Diesel Urban Restricted 0.0006 0.0000 0.0000 0.0000				 			0.0000	
Light Commercial Truck Ethanol (E-85) Urban Restricted 0.0001 0.0000 0.0000 0.0000 Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Off-Network 0.0000 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Restricted 0.0004 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Unrestricted 0.0006 0.0000 0.0000 0.0000 Intercity Bus Diesel Urban Restricted 0.0006 0.0000 0.0000 0.0000		` '		 				
Light Commercial Truck Ethanol (E-85) Urban Unrestricted 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Off-Network 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Restricted 0.0004 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Unrestricted 0.0006 0.0000 0.0000 0.0000 Intercity Bus Diesel Urban Restricted 0.0006 0.0000 0.0000 0.0000	0							
Intercity Bus Diesel Off-Network 0.0000 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Restricted 0.0004 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Unrestricted 0.0006 0.0000 0.0000 0.0000 Intercity Bus Diesel Urban Restricted 0.0006 0.0000 0.0000 0.0000				 				
Intercity Bus Diesel Rural Restricted 0.0004 0.0000 0.0000 0.0000 Intercity Bus Diesel Rural Unrestricted 0.0006 0.0000 0.0000 0.0000 Intercity Bus Diesel Urban Restricted 0.0006 0.0000 0.0000 0.0000				 				
Intercity Bus Diesel Rural Unrestricted 0.0006 0.0000 0.0000 0.0000 Intercity Bus Diesel Urban Restricted 0.0006 0.0000 0.0000 0.0000								
Intercity Bus Diesel Urban Restricted 0.0006 0.0000 0.0000 0.0000								
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	Intercity Bus	Diesel	Urban Unrestricted	0.0008	0.0000	0.0000	0.0000	

Source Type	Fuel Type	Road Type	Sheboygan W	Vhole County No	nattainment Area	- Year 2045	
			NOx Emissions	VOC Emissions			
			(tpswd)		(tpswd)		
			Total	Exhaust	Evaporative	Total	
Transit Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000	
Transit Bus	Diesel	Rural Restricted	0.0007	0.0000	0.0000	0.0000	
Transit Bus	Diesel	Rural Unrestricted	0.0008	0.0000	0.0000	0.0000	
Transit Bus	Diesel	Urban Restricted	0.0011	0.0000	0.0000	0.0000	
Transit Bus	Diesel	Urban Unrestricted	0.0005	0.0000	0.0000	0.0000	
Transit Bus	CNG	Off-Network	0.0000	0.0000	0.0000	0.0000	
Transit Bus	CNG	Rural Restricted	0.0002	0.0000	0.0000	0.0000	
Transit Bus	CNG	Rural Unrestricted	0.0002	0.0000	0.0000	0.0000	
Transit Bus	CNG	Urban Restricted	0.0003	0.0000	0.0000	0.0000	
Transit Bus	CNG	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000	
School Bus	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000	
School Bus	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000	
School Bus	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000	
School Bus	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000	
School Bus	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000	
School Bus	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000	
School Bus	Diesel	Rural Restricted	0.0017	0.0001	0.0000	0.0001	
School Bus	Diesel	Rural Unrestricted	0.0019	0.0001	0.0000	0.0001	
School Bus	Diesel	Urban Restricted	0.0024	0.0001	0.0000	0.0001	
School Bus	Diesel	Urban Unrestricted	0.0011	0.0001	0.0000	0.0001	
Refuse Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000	
Refuse Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000	
Refuse Truck	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000	
Refuse Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000	
Refuse Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000	
Refuse Truck	Diesel	Off-Network	0.0000	0.0000	0.0000	0.0000	
Refuse Truck	Diesel	Rural Restricted	0.0019	0.0000	0.0000	0.0000	
Refuse Truck	Diesel	Rural Unrestricted	0.0019	0.0001	0.0000	0.0001	
Refuse Truck	Diesel	Urban Restricted	0.0018	0.0001	0.0000	0.0001	
Refuse Truck	Diesel	Urban Unrestricted	0.0006	0.0001	0.0000	0.0000	
Single Unit Short-haul Truck	Gasoline	Off-Network	0.0013	0.0021	0.0024	0.0045	
Single Unit Short-haul Truck	Gasoline	Rural Restricted	0.0013	0.0021	0.0024	0.0043	
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted	0.0026	0.0003	0.0001	0.0004	
Single Unit Short-haul Truck	Gasoline	Urban Restricted	0.0020	0.0007	0.0002	0.0007	
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted	0.0030	0.0003	0.0001	0.0007	
Single Unit Short-haul Truck	Diesel	Off-Network	_	0.0004	0.0001		
Single Unit Short-haul Truck	Diesel	Rural Restricted	0.0062 0.0085	0.0003	0.0000	0.0003	
Single Unit Short-haul Truck	Diesel	Rural Unrestricted	0.0065	0.0003	0.0000	0.0003	
Single Unit Short-haul Truck Single Unit Short-haul Truck	Diesel	Urban Restricted	0.0127	0.0011	0.0000	0.0011	
Single Unit Short-haul Truck Single Unit Short-haul Truck	Diesel	Urban Unrestricted				0.0008	
Single Unit Long-haul Truck	Gasoline	Off-Network	0.0062	0.0005 0.0000	0.0000		
Single Unit Long-haul Truck Single Unit Long-haul Truck		Rural Restricted	0.0000	0.0000	0.0000	0.0000	
Single Unit Long-haul Truck Single Unit Long-haul Truck	Gasoline Gasoline		0.0000		0.0000		
		Rural Unrestricted Urban Restricted	0.0000	0.0000	0.0000	0.0000	
Single Unit Long-haul Truck	Gasoline						
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000	
Single Unit Long-haul Truck	Diesel	Off-Network	0.0002	0.0000		0.0000	
Single Unit Long-haul Truck	Diesel	Rural Unrestricted	0.0007	0.0000	0.0000	0.0000	
Single Unit Long-haul Truck	Diesel	Rural Unrestricted	0.0011	0.0001	0.0000	0.0001	
Single Unit Long-haul Truck	Diesel	Urban Restricted	0.0010	0.0001	0.0000	0.0001	
Single Unit Long-haul Truck	Diesel	Urban Unrestricted	0.0005	0.0000	0.0000	0.0000	
Motor Home	Gasoline	Off-Network	0.0001	0.0001	0.0005	0.0006	
Motor Home	Gasoline	Rural Restricted	0.0001	0.0000	0.0000	0.0000	
Motor Home	Gasoline	Rural Unrestricted	0.0002	0.0000	0.0000	0.0001	
Motor Home	Gasoline	Urban Restricted	0.0002	0.0000	0.0000	0.0000	
Motor Home	Gasoline	Urban Unrestricted	0.0001	0.0000	0.0000	0.0000	
Motor Home	Diesel	Off-Network	0.0002	0.0000	0.0000	0.0000	
Motor Home	Diesel	Rural Restricted	0.0002	0.0000	0.0000	0.0000	
Motor Home	Diesel	Rural Unrestricted	0.0003	0.0000	0.0000	0.0000	
Motor Home	Diesel	Urban Restricted	0.0003	0.0000	0.0000	0.0000	

Source Type	Fuel Type	Road Type	Sheboygan W	hole County No	nattainment Area -	- Year 2045
			NOx Emissions (tpswd)		VOC Emissions (tpswd)	
			Total	Exhaust	Evaporative	Total
Motor Home	Diesel	Urban Unrestricted	0.0002	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Off-Network	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Rural Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Restricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Gasoline	Urban Unrestricted	0.0000	0.0000	0.0000	0.0000
Combination Short-haul Truck	Diesel	Off-Network	0.0000	0.0001	0.0000	0.0001
Combination Short-haul Truck	Diesel	Rural Restricted	0.0190	0.0005	0.0000	0.0005
Combination Short-haul Truck	Diesel	Rural Unrestricted	0.0167	0.0007	0.0000	0.0007
Combination Short-haul Truck	Diesel	Urban Restricted	0.0185	0.0006	0.0000	0.0006
Combination Short-haul Truck	Diesel	Urban Unrestricted	0.0063	0.0003	0.0000	0.0003
Combination Long-haul Truck	Diesel	Off-Network	0.4103	0.0676	0.0000	0.0676
Combination Long-haul Truck	Diesel	Rural Restricted	0.0571	0.0015	0.0000	0.0015
Combination Long-haul Truck	Diesel	Rural Unrestricted	0.0482	0.0019	0.0000	0.0019
Combination Long-haul Truck	Diesel	Urban Restricted	0.0537	0.0017	0.0000	0.0017
Combination Long-haul Truck	Diesel	Urban Unrestricted	0.0178	0.0007	0.0000	0.0007
3						
ALL	ALL	ALL	0.9038	0.1831	0.2506	0.4337
Motorcycle	ALL	ALL	0.0167	0.0148	0.0488	0.0636
Passenger Car	ALL	ALL	0.0682	0.0415	0.1062	0.1477
Passenger Truck	ALL	ALL	0.0688	0.0322	0.0730	0.1052
Light Commercial Truck	ALL	ALL	0.0223	0.0102	0.0193	0.0295
Intercity Bus	ALL	ALL	0.0019	0.0001	0.0000	0.0001
Transit Bus	ALL	ALL	0.0041	0.0002	0.0000	0.0002
School Bus	ALL	ALL	0.0071	0.0004	0.0000	0.0004
Refuse Truck	ALL	ALL	0.0058	0.0002	0.0000	0.0002
Single Unit Short-haul Truck	ALL	ALL	0.0560	0.0072	0.0029	0.0101
Single Unit Long-haul Truck	ALL	ALL	0.0035	0.0003	0.0000	0.0003
Motor Home	ALL	ALL	0.0018	0.0003	0.0005	0.0009
Combination Short-haul Truck	ALL	ALL	0.0605	0.0021	0.0000	0.0021
Combination Long-haul Truck	ALL	ALL	0.5872	0.0735	0.0000	0.0735
Communication Long Hadi Track	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	0.0072	0.07.00	0.0000	0.07.00
ALL	ALL	ALL	0.9038	0.1831	0.2506	0.4337
					0.200	
ALL	Gasoline	ALL	0.1688	0.0991	0.2506	0.3498
ALL	Diesel	ALL	0.7306	0.0819	0.0000	0.0819
ALL	CNG	ALL	0.0009	0.0001	0.0000	0.0001
ALL	Ethanol (E-85)	ALL	0.0036	0.0020	0.0000	0.0020
	(,			*****		*****
ALL	ALL	ALL	0.9038	0.1831	0.2506	0.4337
		1	0.5000	0.1001	5.2500	0.1007
ALL	ALL	Off-Network	0.4850	0.1385	0.2042	0.3427
ALL	ALL	Rural Restricted	0.1271	0.0103	0.0067	0.0170
ALL	ALL	Rural Unrestricted	0.1191	0.0163	0.0007	0.0375
ALL	ALL	Urban Restricted	0.1252	0.0103	0.0089	0.0202
ALL	ALL	Urban Unrestricted	0.0474	0.0068	0.0096	0.0164
- 		2.24 230110104	0.017 T	0.0000	0.0070	0.0101
ALL	ALL	ALL	0.9038	0.1831	0.2506	0.4337
· ·	1	1	0.7050	0.1031	0.2500	0.1557

Table 2-a: Vehicle-Miles of Travel Output from the MOVES2014 Model; Years 2015, 2025, 2035 and 2045

Source Type	Fuel Type	Road Type	Sheboyga	Vehicle-Mile		nt Area
				Summer V	Veekday	
			2015	2025	2035	2045
Motorcycle	Gasoline	Off-Network				
Motorcycle	Gasoline	Rural Restricted	3,861	4,199	4,571	4,941
Motorcycle	Gasoline	Rural Unrestricted	10,124	9,920	10,415	11,192
Motorcycle	Gasoline	Urban Restricted	3,511	4,307	4,702	5,116
Motorcycle	Gasoline	Urban Unrestricted	3,484	3,606	3,804	4,093
Passenger Car	Gasoline	Off-Network				
Passenger Car	Gasoline	Rural Restricted	293,800	313,159	340,774	369,896
Passenger Car	Gasoline	Rural Unrestricted	568,128	545,604	572,684	617,783
Passenger Car	Gasoline	Urban Restricted	314,808	378,595	413,185	451,250
Passenger Car	Gasoline	Urban Unrestricted	261,902	265,627	280,187	302,618
Passenger Car	Diesel	Off-Network				
Passenger Car	Diesel	Rural Restricted	2,024	3,556	4,085	4,445
Passenger Car	Diesel	Rural Unrestricted	3,914	6,196	6,864	7,423
Passenger Car	Diesel	Urban Restricted	2,169	4,299	4,952	5,422
Passenger Car	Diesel	Urban Unrestricted	1,804	3,017	3,358	3,636
Passenger Car	Ethanol (E-85)	Off-Network				
Passenger Car	Ethanol (E-85)	Rural Restricted	169	3,775	4,858	4,054
Passenger Car	Ethanol (E-85)	Rural Unrestricted	326	6,577	8,165	6,770
Passenger Car	Ethanol (E-85)	Urban Restricted	181	4,564	5,891	4,945
Passenger Car	Ethanol (E-85)	Urban Unrestricted	151	3,202	3,995	3,316
Passenger Truck	Gasoline	Off-Network				
Passenger Truck	Gasoline	Rural Restricted	227,386	228,557	244,397	267,171
Passenger Truck	Gasoline	Rural Unrestricted	509,181	461,130	475,619	516,724
Passenger Truck	Gasoline	Urban Restricted	220,408	249,963	268,067	294,846
Passenger Truck	Gasoline	Urban Unrestricted	189,708	181,442	188,067	204,568
Passenger Truck	Diesel	Off-Network				
Passenger Truck	Diesel	Rural Restricted	4,320	4,830	5,269	5,690
Passenger Truck	Diesel	Rural Unrestricted	9,674	9,745	10,254	11,004
Passenger Truck	Diesel	Urban Restricted	4,188	5,283	5,780	6,279
Passenger Truck	Diesel	Urban Unrestricted	3,604	3,835	4,055	4,356
Passenger Truck	Ethanol (E-85)	Off-Network				
Passenger Truck	Ethanol (E-85)	Rural Restricted	436	10,308	13,637	11,351
Passenger Truck	Ethanol (E-85)	Rural Unrestricted	977	20,796	26,538	21,953
Passenger Truck	Ethanol (E-85)	Urban Restricted	423	11,273	14,958	12,526
Passenger Truck	Ethanol (E-85)	Urban Unrestricted	364	8,183	10,494	8,691
Light Commercial Truck	Gasoline	Off-Network				
Light Commercial Truck	Gasoline	Rural Restricted	51,363	56,533	60,464	65,951
Light Commercial Truck	Gasoline	Rural Unrestricted	114,145	113,194	116,774	126,586
Light Commercial Truck	Gasoline	Urban Restricted	49,419	61,370	65,828	72,245
Light Commercial Truck	Gasoline	Urban Unrestricted	42,382	44,387	46,017	49,944
Light Commercial Truck	Diesel	Off-Network				
Light Commercial Truck	Diesel	Rural Restricted	2,925	3,317	3,569	3,848
Light Commercial Truck	Diesel	Rural Unrestricted	6,501	6,641	6,894	7,386
Light Commercial Truck	Diesel	Urban Restricted	2,815	3,600	3,886	4,215
Light Commercial Truck	Diesel	Urban Unrestricted	2,414	2,604	2,717	2,914
Light Commercial Truck	Ethanol (E-85)	Off-Network				
Light Commercial Truck	Ethanol (E-85)	Rural Restricted	81	2,405	3,215	2,686
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted	181	4,815	6,208	5,155
Light Commercial Truck	Ethanol (E-85)	Urban Restricted	78	2,610	3,500	2,942
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted	67	1,888	2,447	2,034
Intercity Bus	Diesel	Off-Network				
Intercity Bus	Diesel	Rural Restricted	274	301	336	380
Intercity Bus	Diesel	Rural Unrestricted	484	466	502	571
Intercity Bus	Diesel	Urban Restricted	339	419	482	573
Intercity Bus	Diesel	Urban Unrestricted	240	250	272	307

Source Type	Fuel Type	Road Type	Sheboyga		nty Nonattainmer	nt Area
			2015	2025	2035	2045
Transit Bus	Gasoline	Off-Network	2015	2025	2035	2045
Transit Bus	Gasoline	Rural Restricted	9	13	17	19
Transit Bus	Gasoline	Rural Unrestricted	15	21	26	30
Transit Bus	Gasoline	Urban Restricted	11	19	25	30
Transit Bus	Gasoline	Urban Unrestricted	8	11	14	16
Transit Bus	Diesel	Off-Network	<u> </u>	- 11	- 11	10
Transit Bus	Diesel	Rural Restricted	459	493	563	644
Transit Bus	Diesel	Rural Unrestricted	824	778	857	984
Transit Bus	Diesel	Urban Restricted	577	698	826	986
Transit Bus	Diesel	Urban Unrestricted	412	421	468	532
Transit Bus	CNG	Off-Network				
Transit Bus	CNG	Rural Restricted	70	91	109	124
Transit Bus	CNG	Rural Unrestricted	125	144	165	190
Transit Bus	CNG	Urban Restricted	88	129	159	191
Transit Bus	CNG	Urban Unrestricted	63	78	90	103
School Bus	Gasoline	Off-Network				
School Bus	Gasoline	Rural Restricted	17	17	18	21
School Bus	Gasoline	Rural Unrestricted	31	26	28	32
School Bus	Gasoline	Urban Restricted	22	23	27	32
School Bus	Gasoline	Urban Unrestricted	16	14	15	17
School Bus	Diesel	Off-Network				
School Bus	Diesel	Rural Restricted	1,475	1,614	1,798	2,038
School Bus	Diesel	Rural Unrestricted	2,651	2,545	2,737	3,115
School Bus	Diesel	Urban Restricted	1,856	2,283	2,634	3,121
School Bus	Diesel	Urban Unrestricted	1,326	1,377	1,495	1,685
Refuse Truck	Gasoline	Off-Network	24		_	
Refuse Truck	Gasoline	Rural Restricted	31	6	5	5
Refuse Truck	Gasoline	Rural Unrestricted	31	6	4	4
Refuse Truck Refuse Truck	Gasoline	Urban Restricted Urban Unrestricted	26 10	6 2	4	5 2
Refuse Truck	Gasoline Diesel	Off-Network	10		1	
Refuse Truck	Diesel	Rural Restricted	1,273	1,361	1,494	1,631
Refuse Truck	Diesel	Rural Unrestricted	1,277	1,198	1,269	1,031
Refuse Truck	Diesel	Urban Restricted	1,063	1,280	1,454	1,658
Refuse Truck	Diesel	Urban Unrestricted	433	439	470	510
Single Unit Short-haul Truck	Gasoline	Off-Network	133	137	170	310
Single Unit Short-haul Truck	Gasoline	Rural Restricted	5,776	6,468	7,132	7,793
Single Unit Short-haul Truck	Gasoline	Rural Unrestricted	8,964	8,808	9,371	10,280
Single Unit Short-haul Truck	Gasoline	Urban Restricted	6,571	8,276	9,446	10,791
Single Unit Short-haul Truck	Gasoline	Urban Unrestricted	3,839	4,080	4,384	4,761
Single Unit Short-haul Truck	Diesel	Off-Network		·	·	
Single Unit Short-haul Truck	Diesel	Rural Restricted	12,847	13,731	14,992	16,370
Single Unit Short-haul Truck	Diesel	Rural Unrestricted	19,936	18,699	19,700	21,594
Single Unit Short-haul Truck	Diesel	Urban Restricted	14,615	17,569	19,859	22,668
Single Unit Short-haul Truck	Diesel	Urban Unrestricted	8,538	8,661	9,216	10,001
Single Unit Long-haul Truck	Gasoline	Off-Network				
Single Unit Long-haul Truck	Gasoline	Rural Restricted	90	12	0	0
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted	140	17	0	0
Single Unit Long-haul Truck	Gasoline	Urban Restricted	102	16	0	0
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted	60	8	0	0
Single Unit Long-haul Truck	Diesel	Off-Network				
Single Unit Long-haul Truck	Diesel	Rural Restricted	936	1,170	1,280	1,399
Single Unit Long-haul Truck	Diesel	Rural Unrestricted	1,451	1,591	1,679	1,842
Single Unit Long-haul Truck	Diesel	Urban Restricted	1,063	1,495	1,692	1,933
Single Unit Long-haul Truck	Diesel	Urban Unrestricted	620	736	784	852
Motor Home	Gasoline	Off-Network	224	0.05	260	201
Motor Home	Gasoline	Rural Unrestricted	326	267	269	291
Motor Home	Gasoline	Rural Unrestricted	672	483	470	510
Motor Home	Gasoline	Urban Restricted	472	435	454	514
Motor Home	Gasoline	Urban Unrestricted	331	258	253	272
Motor Home	Diesel	Off-Network	200	245	260	201
Motor Home Motor Home	Diesel Diesel	Rural Restricted Rural Unrestricted	208 429	245 443	268 469	291
Motor Home	Diesel	Urban Restricted	301	399	453	510 514
MICIOI I IOIIIC	DIESEI	Olbali Nestilcieu	301	377	455	314

Source Type	Fuel Type	Road Type	Sheboya	an Whole Cou	nty Nonattainme	ent Area
, , , , , , , , , , , , , , , , , , ,	,,	,,	70	Vehicle-Mile		
				Summer '	Weekday	
			2015	2025	2035	2045
Combination Short-haul Truck	Gasoline	Off-Network				
Combination Short-haul Truck	Gasoline	Rural Restricted	2	0	0	0
Combination Short-haul Truck	Gasoline	Rural Unrestricted	2	0	0	0
Combination Short-haul Truck	Gasoline	Urban Restricted	1	0	0	0
Combination Short-haul Truck	Gasoline	Urban Unrestricted	1	0	0	0
Combination Short-haul Truck	Diesel	Off-Network				
Combination Short-haul Truck	Diesel	Rural Restricted	10,516	13,130	14,524	16,810
Combination Short-haul Truck	Diesel	Rural Unrestricted	10,783	11,815	12,610	14,653
Combination Short-haul Truck	Diesel	Urban Restricted	8,866	12,452	14,259	17,252
Combination Short-haul Truck	Diesel	Urban Unrestricted	3,637	4,310	4,646	5,343
Combination Long-haul Truck	Diesel	Off-Network	·	,	ŕ	ŕ
Combination Long-haul Truck	Diesel	Rural Restricted	36,449	37,988	43,250	49,711
Combination Long-haul Truck	Diesel	Rural Unrestricted	35,221	32,213	35,387	40,832
Combination Long-haul Truck	Diesel	Urban Restricted	29,683	34,797	41,010	49,280
Combination Long-haul Truck	Diesel	Urban Unrestricted	11,556	11,431	12,681	14,487
3			22,000	,	22,002	- 1, 101
ALL	ALL	ALL	3,164,149	3,327,674	3,560,297	3,860,731
			0,101,113	0,027,071	0,000,277	0,000,701
Motorcycle	ALL	ALL	20,980	22,031	23,491	25,342
Passenger Car	ALL	ALL	1,449,376	1,538,170	1,648,998	1,781,559
Passenger Truck	ALL	ALL	1,170,670	1,195,344	1,267,134	1,365,159
Light Commercial Truck	ALL	ALL	272,372	303,363	321,517	345,904
Intercity Bus	ALL	ALL	1,338	1,436	1,592	1,831
Transit Bus	ALL	ALL	2.659	2.896	3,319	3,848
School Bus	ALL	ALL	7.394	7.899	8.752	10,060
Refuse Truck	ALL	ALL	4.145	4.298	4.701	5.204
Single Unit Short-haul Truck	ALL	ALL	81,087	86,292	94,098	104,256
Single Unit Long-haul Truck	ALL	ALL	4,462	5,044	5,435	6,025
Motor Home	ALL	ALL	2,950	2,765	2.890	3,175
Combination Short-haul Truck	ALL	ALL	33,807	41,706	46,039	54,058
Combination Long-haul Truck	ALL	ALL	112.908	116,428	132.328	154,309
Combination Long Haar Frack	7122	7122	112,700	110,120	132,320	134,307
ALL	ALL	ALL	3,164,149	3,327,674	3,560,297	3,860,731
/\LL	/ LL	/ LL	3,104,147	3,327,074	3,300,277	3,000,731
ALL	Gasoline	ALL	2,891,186	2,950,885	3,127,515	3,400,346
ALL	Diesel	ALL	269,183	295,953	328,353	373,355
ALL	CNG	ALL	345	442	524	608
ALL	Ethanol (E-85)	ALL	3,435	80.394	103,904	86,422
ALL	Ethanol (E-05)	ALL	3,433	00,394	103,904	00,422
ALL	ALL	ALL	3,164,149	3,327,674	3,560,297	3,860,731
ALL	ALL	ALL	3,104,149	3,347,074	3,300,497	3,000,731
ALL	ALL	Off-Network				
ALL	ALL	Rural Restricted	657,124	707,544	770,894	837,558
ALL	ALL	Rural Unrestricted	1,306,187	1,263,869	1,325,687	1,428,511
ALL	ALL	Urban Restricted	1,306,187	806,159	1,325,687	969,335
ALL	ALL	Urban Restricted Urban Unrestricted	,	,		
ALL	ALL	Under Unitestricted	537,182	550,102	580,182	625,328
ALL	ALI	ALL	2164140	2 227 474	2.5(0.207	2.060.724
ALL	ALL	ALL	3,164,149	3,327,674	3,560,297	3,860,731

Table 2-b: Vehicle Population Output from the MOVES2014 Model; Years 2015, 2025, 2035 and 2045

Source Type	Fuel Type	Road Type	Sheboyga		y Nonattainme	nt Area
				Vehicle Po	pulation	
			2015	2025	2035	2045
Motorcycle	Gasoline	Off-Network	2,979	3,129	3,336	3,599
Motorcycle	Gasoline	Rural Restricted				
Motorcycle	Gasoline	Rural Unrestricted				
Motorcycle	Gasoline	Urban Restricted				
Motorcycle	Gasoline	Urban Unrestricted				
Passenger Car	Gasoline	Off-Network	41,826	43,242	45,958	49,730
Passenger Car	Gasoline	Rural Restricted				
Passenger Car	Gasoline	Rural Unrestricted				
Passenger Car	Gasoline	Urban Restricted				
Passenger Car	Gasoline	Urban Unrestricted				
Passenger Car	Diesel	Off-Network	270	473	547	598
Passenger Car	Diesel	Rural Restricted				
Passenger Car	Diesel	Rural Unrestricted				
Passenger Car	Diesel	Urban Restricted				
Passenger Car	Diesel	Urban Unrestricted				
Passenger Car	Ethanol (E-85)	Off-Network	22	513	653	546
Passenger Car	Ethanol (E-85)	Rural Restricted				
Passenger Car	Ethanol (E-85)	Rural Unrestricted				
Passenger Car	Ethanol (E-85)	Urban Restricted				
Passenger Car	Ethanol (E-85)	Urban Unrestricted				
Passenger Truck	Gasoline	Off-Network	28,953	29,073	30,644	33,473
Passenger Truck	Gasoline	Rural Restricted	· ·	,	,	
Passenger Truck	Gasoline	Rural Unrestricted				
Passenger Truck	Gasoline	Urban Restricted				
Passenger Truck	Gasoline	Urban Unrestricted				
Passenger Truck	Diesel	Off-Network	536	609	660	713
Passenger Truck	Diesel	Rural Restricted				
Passenger Truck	Diesel	Rural Unrestricted				
Passenger Truck	Diesel	Urban Restricted				
Passenger Truck	Diesel	Urban Unrestricted				
Passenger Truck	Ethanol (E-85)	Off-Network	50	1,271	1,706	1,426
Passenger Truck	Ethanol (E-85)	Rural Restricted				
Passenger Truck	Ethanol (E-85)	Rural Unrestricted				
Passenger Truck	Ethanol (E-85)	Urban Restricted				
Passenger Truck	Ethanol (E-85)	Urban Unrestricted				
Light Commercial Truck	Gasoline	Off-Network	7,010	7,174	7,560	8,248
Light Commercial Truck	Gasoline	Rural Restricted	·	·	·	
Light Commercial Truck	Gasoline	Rural Unrestricted				
Light Commercial Truck	Gasoline	Urban Restricted				
Light Commercial Truck	Gasoline	Urban Unrestricted				
Light Commercial Truck	Diesel	Off-Network	399	422	446	483
Light Commercial Truck	Diesel	Rural Restricted				
Light Commercial Truck	Diesel	Rural Unrestricted				
Light Commercial Truck	Diesel	Urban Restricted				
Light Commercial Truck	Diesel	Urban Unrestricted				
Light Commercial Truck	Ethanol (E-85)	Off-Network	9	292	399	337
Light Commercial Truck	Ethanol (E-85)	Rural Restricted				
Light Commercial Truck	Ethanol (E-85)	Rural Unrestricted				
Light Commercial Truck	Ethanol (E-85)	Urban Restricted				
Light Commercial Truck	Ethanol (E-85)	Urban Unrestricted				
Intercity Bus	Diesel	Off-Network	5	5	6	
Intercity Bus	Diesel	Rural Restricted	-	-	-	
Intercity Bus	Diesel	Rural Unrestricted		+	+	
•	Diesel					
Intercity Bus	Diesei	Urban Restricted				

Source Type	Fuel Type	Road Type	Sheboyga	n Whole Count Vehicle Po	y Nonattainmer pulation	t Area
			2015	2025	2035	2045
Transit Bus	Gasoline	Off-Network	0	0	1	1
Transit Bus	Gasoline	Rural Restricted				
Transit Bus	Gasoline	Rural Unrestricted				
Transit Bus	Gasoline	Urban Restricted				
Transit Bus	Gasoline	Urban Unrestricted	16	16	10	21
Transit Bus Transit Bus	Diesel Diesel	Off-Network Rural Restricted	16	16	18	21
Transit Bus	Diesel	Rural Unrestricted			+	
Transit Bus	Diesel	Urban Restricted				
Transit Bus	Diesel	Urban Unrestricted				
Transit Bus	CNG	Off-Network	2	3	3	4
Transit Bus	CNG	Rural Restricted				
Transit Bus	CNG	Rural Unrestricted				
Transit Bus	CNG	Urban Restricted				
Transit Bus	CNG	Urban Unrestricted				
School Bus	Gasoline	Off-Network	2	2	2	2
School Bus	Gasoline	Rural Restricted				
School Bus	Gasoline	Rural Unrestricted				
School Bus	Gasoline	Urban Restricted				
School Bus School Bus	Gasoline	Urban Unrestricted Off-Network	4.64	454	101	200
School Bus	Diesel		161	174	194	223
School Bus	Diesel Diesel	Rural Restricted Rural Unrestricted				
School Bus	Diesel	Urban Restricted				
School Bus	Diesel	Urban Unrestricted				
Refuse Truck	Gasoline	Off-Network	2	1	0	0
Refuse Truck	Gasoline	Rural Restricted	-	-	, i	Ü
Refuse Truck	Gasoline	Rural Unrestricted				
Refuse Truck	Gasoline	Urban Restricted				
Refuse Truck	Gasoline	Urban Unrestricted				
Refuse Truck	Diesel	Off-Network	53	59	65	72
Refuse Truck	Diesel	Rural Restricted				
Refuse Truck	Diesel	Rural Unrestricted				
Refuse Truck	Diesel	Urban Restricted				
Refuse Truck	Diesel	Urban Unrestricted				
Single Unit Short-haul Truck	Gasoline	Off-Network	566	580	641	717
Single Unit Short-haul Truck	Gasoline	Rural Restricted				
Single Unit Short-haul Truck	Gasoline Gasoline	Rural Unrestricted Urban Restricted				
Single Unit Short-haul Truck Single Unit Short-haul Truck	Gasoline	Urban Unrestricted				
Single Unit Short-haul Truck	Diesel	Off-Network	1,159	1,248	1,356	1,507
Single Unit Short-haul Truck	Diesel	Rural Restricted	1,107	1,210	1,550	1,507
Single Unit Short-haul Truck	Diesel	Rural Unrestricted				
Single Unit Short-haul Truck	Diesel	Urban Restricted				
Single Unit Short-haul Truck	Diesel	Urban Unrestricted				
Single Unit Long-haul Truck	Gasoline	Off-Network	14	4	0	0
Single Unit Long-haul Truck	Gasoline	Rural Restricted				
Single Unit Long-haul Truck	Gasoline	Rural Unrestricted				
Single Unit Long-haul Truck	Gasoline	Urban Restricted				
Single Unit Long-haul Truck	Gasoline	Urban Unrestricted				
Single Unit Long-haul Truck	Diesel	Off-Network	59	72	82	92
Single Unit Long-haul Truck	Diesel	Rural Harastricted				
Single Unit Long-haul Truck	Diesel	Rural Unrestricted			+	
Single Unit Long-haul Truck Single Unit Long-haul Truck	Diesel Diesel	Urban Restricted Urban Unrestricted				
Motor Home	Gasoline	Off-Network	254	233	245	273
Motor Home	Gasoline	Rural Restricted	234	233	243	213
Motor Home	Gasoline	Rural Unrestricted				
Motor Home	Gasoline	Urban Restricted		+	+	
Motor Home	Gasoline	Urban Unrestricted				
Motor Home	Diesel	Off-Network	162	214	245	273
Motor Home	Diesel	Rural Restricted				
Motor Home	Diesel	Rural Unrestricted				
Motor Home	Diesel	Urban Restricted				
Motor Home	Diesel	Urban Unrestricted				

Source Type	Fuel Type	Road Type	Sheboyga	an Whole Coun Vehicle Po	ty Nonattainmer	nt Area
			2015	2025	2035	2045
Combination Short-haul Truck	Gasoline	Off-Network	0	0	0	0
Combination Short-haul Truck	Gasoline	Rural Restricted	Ů	Ü	Ü	
Combination Short-haul Truck	Gasoline	Rural Unrestricted				
Combination Short-haul Truck	Gasoline	Urban Restricted				
Combination Short-haul Truck	Gasoline	Urban Unrestricted				
Combination Short-haul Truck	Diesel	Off-Network	339	335	371	439
Combination Short-haul Truck	Diesel	Rural Restricted	337	333	3/1	437
Combination Short-haul Truck	Diesel	Rural Unrestricted				
Combination Short-haul Truck	Diesel	Urban Restricted				
Combination Short-haul Truck	Diesel	Urban Unrestricted				
Combination Long-haul Truck	Diesel	Off-Network	376	437	500	577
Combination Long-haul Truck	Diesel	Rural Restricted	370	437	300	377
Combination Long-haul Truck	Diesel	Rural Unrestricted				
Combination Long-haul Truck	Diesel	Urban Restricted				
Combination Long-haul Truck	Diesel	Urban Unrestricted				
Combination Long-nati Truck	Diesei	Orban Officestricted				
ALL	ALL	ALL	85,227	89,579	95,638	103,359
Motorcycle	ALL	ALL	2,979	3,129	3,336	3,599
Passenger Car	ALL	ALL	42,118	44,228	47,159	50,873
Passenger Truck	ALL	ALL	29,539	30,953	33,011	35,612
Light Commercial Truck	ALL	ALL	7,419	7,887	8,405	9,066
Intercity Bus	ALL	ALL	5	5	6	7,000
Transit Bus	ALL	ALL	18	20	22	25
School Bus	ALL	ALL	163	175	196	226
Refuse Truck	ALL	ALL	55	60	65	72
Single Unit Short-haul Truck	ALL	ALL	1,725	1,828	1,997	2,224
Single Unit Long-haul Truck	ALL	ALL	73	75	82	92
Motor Home	ALL	ALL	417	447	490	546
Combination Short-haul Truck	ALL	ALL	339	335	371	439
Combination Long-haul Truck	ALL	ALL	376	437	500	577
Combination Long Hadi Truck	7122	7122	370	437	300	377
ALL	ALL	ALL	85,227	89,579	95,638	103,359
ALL	Gasoline	ALL	81,608	83,437	88,387	96,043
ALL	Diesel	ALL	3,535	4,063	4,490	5,003
ALL	CNG	ALL	2	3	3	4
ALL	Ethanol (E-85)	ALL	81	2,076	2,758	2,309
7.22	24.14.16. (2.66)	7.22	01	2,070	2,730	2,507
ALL	ALL	ALL	85,227	89,579	95,638	103,359
ALL	ALL	Off-Network	85,227	89,579	95,638	103,359
ALL	ALL	Rural Restricted	33,227	0,01	, 5,050	100,000
ALL	ALL	Rural Unrestricted	+		+	
ALL	ALL	Urban Restricted	+			
ALL	ALL	Urban Unrestricted				
ALL	ALL	ALL	85,227	89,579	95,638	103,359

Jeff Agee-Aguayo

From: Bovee, Christopher P - DNR [Christopher.Bovee@wisconsin.gov]

Sent: Thursday, April 09, 2015 5:25 PM

To: Jeff Agee-Aguayo

Cc: Friedlander, Michael - DNR

Subject: Emission Factors for Sheboygan NTPP Benefits

Attachments: Sheboygan NTPP EFs.xlsx

Hi Jeff,

From the MOVES2014 modeling I did for the Sheboygan conformity analysis, I calculated emission factors that could be used to determine the benefits from the Sheboygan County Non-motorized Transportation Pilot Program.

I limited the emissions to passenger cars traveling on urban unrestricted access roads. The emission factors are a VMT-weighted average of emission factors for the three fuel types: gasoline, diesel and 85% ethanol (E-85).

The resulting emission factors are:

OXIDES OF NITROGEN (NOX)

2015: 0.2746 grams per vehicle-mile 2025: 0.0500 grams per vehicle-mile 2035: 0.0147 grams per vehicle-mile 2045: 0.0112 grams per vehicle-mile

VOLATILE ORGANIC COMPOUNDS (VOC)

2015: 0.1002 grams per vehicle-mile 2025: 0.0296 grams per vehicle-mile 2035: 0.0152 grams per vehicle-mile 2045: 0.0137 grams per vehicle-mile

More details of the calculations are provided in the attached Excel file.

If you have any questions, please let me know.

Thanks,

Chris

We are committed to service excellence.

Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Christopher P. Bovée

Mobile Source Emissions Modeler – Bureau of Air Management

Wisconsin Department of Natural Resources

Phone: (608) 266-5542 Fax: (608) 267-0560

christopher.bovee@wisconsin.gov

Recommended Emission Factors to Determine Benefits of Sheboygan County Nonmotorized Transportation Pilot Program

Calenda Year	r Source Type	Fuel Type	Road Type	Summer Weekday VMT	Hot Summer Wkdy NOx (tons)	Emissions VOC (tons)	Hot Summer Wkdy NOx (gms/mile)	/ Emis. Factors VOC (gms/mile)
2015	Passenger Cars	Gasoline	Urban Unrestricted Access	261,902	0.079393	0.028940	0.2750	0.1002
2015	Passenger Cars	Diesel	Urban Unrestricted Access	1,804	0.000443	0.000191	0.2227	0.0960
2015	Passenger Cars	85% Ethanol	Urban Unrestricted Access	151	0.000019	0.000002	0.1131	0.0091
2015	Passenger Cars	ALL	Urban Unrestricted Access	263,857	0.079855	0.029132	0.2746	0.1002
2025	Passenger Cars	Gasoline	Urban Unrestricted Access	265,627	0.014721	0.008808	0.0503	0.0301
2025	Passenger Cars	Diesel	Urban Unrestricted Access	3,017	0.000159	0.000029	0.0477	0.0087
2025	Passenger Cars	85% Ethanol	Urban Unrestricted Access	3,202	0.000107	0.000022	0.0304	0.0063
2025	Passenger Cars	ALL	Urban Unrestricted Access	271,846	0.014987	0.008860	0.0500	0.0296
2035	Passenger Cars	Gasoline	Urban Unrestricted Access	280,187	0.004538	0.004792	0.0147	0.0155
2035	Passenger Cars	Diesel	Urban Unrestricted Access	3,358	0.000066	0.000014	0.0178	0.0037
2035	Passenger Cars	85% Ethanol	Urban Unrestricted Access	3,995	0.000063	0.000016	0.0143	0.0035
2035	Passenger Cars	ALL	Urban Unrestricted Access	287,540	0.004667	0.004821	0.0147	0.0152
2045	Passenger Cars	Gasoline	Urban Unrestricted Access	302,618	0.003740	0.004664	0.0112	0.0140
2045	Passenger Cars	Diesel	Urban Unrestricted Access	3,636	0.000053	0.000012	0.0133	0.0029
2045	Passenger Cars	85% Ethanol	Urban Unrestricted Access	3,316	0.000041	0.000011	0.0111	0.0029
2045	Passenger Cars	ALL	Urban Unrestricted Access	309,570	0.003834	0.004686	0.0112	0.0137

Wisconsin Department of Natural Resources April 9, 2015

APPENDIX D FINANCIAL CAPACITY ASSESSMENT OF SHORELINE METRO

FINANCIAL CAPACITY ASSESSMENT OF SHORELINE METRO

The most recent Federal Transit Administration (FTA) financial capacity policy for transit systems receiving financial assistance from FTA was issued as Circular 7008.1A on January 30, 2002. In this and all subsequent years in which this policy is in force, the FTA will assess the financial capacity of applicants for federal capital and operating assistance. There are two elements of financial capacity which are evaluated by the FTA: (1) the general financial condition of the public transit grantee and its nonfederal funding entities; and (2) the financial capability of the public transit grantee and its nonfederal funding entities, including the ability of the grantee to fund current capital projects as well as ongoing operating needs. The FTA will determine the financial capacity of Shoreline Metro in the review of this TIP and during its triennial review process.

In addition, the FTA may evaluate the financial capacity of Shoreline Metro if the following conditions exist:

- (1) If there are proposed major changes in transit service levels which create the need for major capital investment;
- (2) If major capital investments must be made to maintain existing service levels, affecting the financial health of the transit system; or
- (3) If there are disturbing trends in ridership, fare levels, operating costs and sources of public support.

In accordance with the requirements of FTA Circular 7008.1A, the Bay-Lake Regional Planning Commission, as the MPO for the Sheboygan Metropolitan Planning Area, has assessed the financial capacity of programmed operating and capital expenditures of Shoreline Metro.

Interested readers are referred to Table D.1 for additional information on operating revenues and expenses (actual, estimated and projected) for the period between 2011 and 2019. Readers are also referred to Table D.2 for additional information concerning financial measures of effectiveness for Shoreline Metro for the period between 2011 and 2019. Detailed operating and capital expense information has also been analyzed in the preparation of several chapters of the *Sheboygan Transit Development Program (TDP): 2012 - 2016*.

It is important to note that there were no negative comments concerning the financial condition of Shoreline Metro expressed in an FTA Triennial Review which took place on June 30 – July 1, 2014. Shoreline Metro streamlined its route structure (in response to changing commercial land use patterns in the transit service area and to make the route structure more efficient for both the transit operation and for passengers) in November 2006. Shoreline Metro discontinued the final hour of transit service on weekday evenings and reinstated the North and South Shuttles throughout the service day on Saturdays in late 2011. Shoreline Metro also consolidated Routes 1 North and 5 North into a single revised Route 5 North in late 2011. In addition, Shoreline Metro divided Route 10 into separate North and South routes in early 2012. Revisions were made to all other Shoreline Metro routes (with the exception of the North and South Shuttles) in late 2011 and early 2012. Base cash fares increased to \$1.75 in mid 2009 (with most other fare media adjusted accordingly with the exception of the monthly pass, which remained at \$48). A day pass of \$3 was instituted in 2011. Fares are projected to remain stable through 2019 at this point.

22	2011 to 2019	Shoreline M	Table D.1 ine Metro Operating Exp	.1 iting Expen f Dollars)	Table D.1 to 2019 Shoreline Metro Operating Expenses and Revenues (In Thousands of Dollars)	Š			
		ACTUAL	JAL		ESTIMATE		PROJECTED**	TED**	
	2011	2012	2013	2014	2015	2016	2017	2018	2019
TOTAL OPERATING REVENUES (farebox and other revenues)	\$759	606\$	\$828	\$867	\$872	\$878	\$878	\$878	\$878
TOTAL OPERATING EXPENSES	(\$4,117)	(\$3,826)	(\$3,828)	(\$3,905)	(\$3,768)	(\$3,736)	(\$3,773)	(\$3,811)	(\$3,849)
OPERATING DEFICIT	(\$3,359)	(\$2,917)	(\$3,000)	(\$3,038)	(\$2,896)	(\$2,858)	(\$2,895)	(\$2,933)	(\$2,971)
PUBLIC OPERATING ASSISTANCE:	6 7	000	000	500	6	900	61.0	6	6 7
OTHER FEDERAL FUNDING*	\$42,75	\$1,180	\$1,520	\$41,293	\$1,231	\$41,203	\$1,217	\$1,229	\$1,242
WisDOT SECTION 85.20	\$1,327	\$1,287	\$1,292	\$1,077	\$1,024	\$1,003	\$1,013	\$1,023	\$1,033
WisDOT SECTION 85.205	\$37	\$37	\$37	89\$	\$42	\$49	\$49	\$49	\$49
CITY OF SHEBOYGAN	099\$	\$346	\$288	\$512	\$512	\$512	\$526	\$540	\$554
CITY OF SHEBOYGAN FALLS	\$35	\$18	\$15	\$34	\$34	\$35	\$36	\$37	\$38
VILLAGE OF KOHLER	\$12	9\$	\$2	\$12	\$12	\$12	\$12	\$13	\$13
TOTAL ASSISTANCE	\$3,359	\$2,917	\$3,000	\$3,038	\$2,896	\$2,858	\$2,895	\$2,933	\$2,971
RETAINED EARNINGS	(\$0)	80	(\$0)	\$0	\$0	80	80	80	(\$0)

Housing and Urban Development (HUD) in 2010, involved \$42,493 in CDBG entitlement funding from 2011 through 2015, and is expected to involve *"Other federal funding" involved \$42,493 in Community Development Block Group (CDBG) entitlement funding provided by the U.S. Department of \$42,493 in CDBG entitlement funding in 2016, 2017, 2018 and 2019.

**Total operating expenses for each year in this table included ADA paratransit expenses. This table only includes revenues and expenses for paratransit services provided in accordance with the ADA.

NOTE: Balances of \$1,000 or less are, in most cases, due to rounding error.

Source: Federal Transit Administration, National Transit Database, 2011, 2012 and 2013; City of Sheboygan Parking and Transit Utility, 2014 and 2015; and Bay-Lake Regional Planning Commission, 2015.

	2011 to 20	19 Shoreli	Table D.2	2 leasures of	Table D.2 011 to 2019 Shoreline Metro Measures of Effectiveness				
		ACTUAI	JAL		ESTIMATE		PROJECTED	CTED	
	2011	2012	2013	2014	2015	2016	2017	2018	2019
REVENUE PASSENGERS (1000s)	458	483	521	539	552	552	552	552	552
REVENUE MILES (1000s)	570	573	586	605	009	575	545	545	545
OPERATING EXPENSES (\$1000s)	\$4,117	\$3,826	\$3,828	\$3,905	\$3,768	\$3,736	\$3,773	\$3,811	\$3,849
FAREBOX REVENUE (\$1000s) ¹	\$437	\$418	\$425	\$452	\$425	\$455	\$455	\$455	\$455
EXPENSE/MILE	\$7.22	\$6.67	\$6.54	\$6.49	\$6.28	\$6.50	\$6.92	\$6.99	\$7.06
EXPENSE/PASSENGER	\$8.98	\$7.92	\$7.35	\$7.25	\$6.82	\$6.76	\$6.83	\$6.90	\$6.97
PASSENGERS/MILE	08.0	0.84	68.0	0.89	0.92	96.0	1.01	1.01	1.01
REVENUE/PASSENGER	\$0.95	\$0.87	\$0.82	\$0.84	\$0.77	\$0.82	\$0.82	\$0.82	\$0.82
${ m BUS\ FLEET}^2$	24	19	24	22	22	22	22	22	22
TRANSIT SYSTEM EMPLOYEES ³	32.5	32.5	32.5	32.5	32.5	31.5	30.0	30.0	30.0
(FULL-TIME EQUIVALENT POSITIONS)									

NOTES:

¹Fixed-route transit system farebox revenues only.

Source: Federal Transit Administration, National Transit Database, 2011, 2012 and 2013; City of Sheboygan Parking and Transit Utility, 2014 and 2015; and Bay-Lake Regional Planning Commission, 2015.

²Fixed-route transit system vehicle fleet only; excludes service vehicles. All vehicles (active and contingency) are included.

³Fixed-route transit system employees only.

Ridership increased by about 5.4 percent between 2011 and 2012; while there was the elimination of one hour of transit service each weeknight coupled with consolidation of two routes on the northeast side of the City of Sheboygan, many other routes were improved around the city, and this, along with the popularity of the day pass instituted in 2011 and improvement in the economy, led to increased ridership. Ridership increased by about 7.8 percent between 2012 and 2013, and this was due to many of the factors that caused the ridership increase from 2011 to 2012. Ridership increased by over 3.4 percent between 2013 and 2014. Ridership is estimated to increase by over 2.5 percent between 2014 and 2015. Ridership is projected to remain at the estimated 2015 level in 2016, 2017, 2018 and 2019, presuming that no significant service cuts or fare increases are implemented.

Farebox revenues decreased by nearly 4.2 percent between 2011 and 2012, increased by over 1.6 percent between 2012 and 2013, and increased by nearly 6.4 percent between 2013 and 2014. Farebox revenues were estimated to have decreased by nearly 6.1 percent between 2014 and 2015. Farebox revenues are projected to increase by nearly 7.1 percent between 2015 and 2016, then are projected to remain at the 2016 level in 2017, 2018 and 2019, again presuming that no significant service cuts or fare increases are implemented.

Minor adjustments in routing, promotional campaigns, and increases in service (where warranted) are among the efforts which have been made by Shoreline Metro over the past several years in order to increase ridership and revenues. There will be a continued backing of transit at the state level. There also has been support for Shoreline Metro in the communities which it serves; such support is expected to continue on the part of a majority of local decision makers in the years to come. However, this support needs to translate into additional subsidy for the transit operation, which may be difficult to accomplish at all levels of government given the Federal deficit, difficulties in balancing the state budget, constraints on local budgets, and few state-authorized options outside the property tax for generating local revenues. There is a strong proefficiency movement among local officials in which Shoreline Metro and other city operations have been expected to become leaner and more efficient before receiving increases in municipal-level aids. Many capital acquisitions listed in this TIP are justified precisely with increased efficiency in mind.

In 2016, Shoreline Metro will replace one (1) 35-foot fixed-route bus and will replace fifty (50) dispatch radios. In 2017, Shoreline Metro will replace three (3) 35-foot fixed-route buses. In 2018, Shoreline Metro will replace two (2) 35-foot fixed-route buses. No transit capital projects have been programmed for 2019. Shoreline Metro is encouraged to use its fleet in such a manner that large proportions of the fleet will not need to be replaced simultaneously. No major capital improvements are planned over the program period. Farebox revenues will be stable over the program period, and sources of combined public support will involve increases over the program period. Judging from this information, we find Shoreline Metro to have had a positive financial condition over the past four years, and that Shoreline Metro has the financial capacity to undertake the purchase of all capital items and maintain existing service levels which are programmed in this 2016 – 2019 Transportation Improvement Program (TIP).

APPENDIX E STATEMENT OF IMPACTS OF TIP PROJECTS ON ENVIRONMENTAL JUSTICE

IMPACTS OF PROJECTS IN THE 2016 – 2019 TIP ON ENVIRONMENTAL JUSTICE

In 1994, Executive Order 12898 – Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations was issued. This Executive Order, accompanied by Title VI of the Civil Rights Act of 1964, attempts to identify, avoid and minimize disproportionately harmful or hazardous health and environmental effects on minority and low income populations. This Executive Order was issued in response to public concerns that everyone deserves equal protection under the law. Each Federal agency, including the U.S. Department of Transportation (USDOT), was directed to make environmental justice a part of its mission.

In 1997, the U.S. Department of Transportation issued *DOT Order to Address Environmental Justice in Minority Populations and Low Income Populations*. According to the USDOT, there are three fundamental principles at the core of environmental justice:

- To avoid, minimize or mitigate disproportionately high and adverse human health and environmental effects, including social and economic effects, on minority populations and on low income populations;
- To ensure the full and fair participation by all potentially affected communities in the transportation decision making process; and
- To prevent the denial of, reduction in, or significant delay in the receipt of benefits by minority and low income populations.

Maps E.1, E.2 and E.3 illustrate the census block groups with above average minority and/or low income populations. All of these census block groups are located wholly or partially in the City of Sheboygan. A portion of census block group 4.1 is located in the Town of Sheboygan, while a portion of census block group 10.4 is located in the Town of Wilson.

All analysis was done at the block group level. Minority population data were collected from the 2010 Decennial Census, while low income population data were collected from the 2009 – 2013 American Community Survey 5-Year Estimates. The Decennial Census no longer has a "long form" that asks economic and other detailed questions.

Street and Highway Projects and their Impacts on Environmental Justice Target Areas

Street and highway projects affecting census block groups with above average minority and/or low income populations are shown in Map E.1; this map only shows programmed street and highway projects during the period covered by this TIP, and does not include studies or WisDOT level of effort projects. The following projects are within or along the boundary of census block groups with above average minority and/or low income populations:

- Project #5: Superior Avenue from North Taylor Drive to North 29th Street: Reconstruction with no Increase in Capacity in 2019 (this project is located in a census block group with a high population below the poverty level);
- Project #9: South 8th Street: Sheboygan River Bridge: Bridge Rehabilitation in 2016 (this project forms the boundary between one census block group with a high population below the poverty level, and another census block group with a very high minority population and a high population below the poverty level);
- Project #10: South Business Drive: Railroad Overpass South of Washington Avenue:

Bridge Replacement in 2018 (this project is on the western boundary of a census block group with a high minority population and a high population below the poverty level); and

• Project #11: Interstate Highway 43: Wilson Lima Road to Fischer Creek Road: Installation of Miscellaneous Cable Guard in 2018 (this project is on a portion of the western boundary of a census block group with a high population below the poverty level).

All but one of the above noted projects are system preservation projects that are expected to improve the quality and safety of the existing street and highway network. In addition, one of the eight above noted projects (Project #11) is a project that will enhance the safety of area motorists. None of the above noted projects involves additional capacity.

<u>Bicycle and Pedestrian Transportation Projects and their Impacts on Environmental</u> Justice Target Areas

Bicycle and pedestrian transportation projects affecting census block groups with above average minority and/or low income populations are shown in Map E.2; this map only shows programmed projects involving construction during the period covered by this TIP, and does not include projects involving studies, educational/promotional efforts or level of effort projects, nor does it include projects where impacts cannot reasonably be mapped. Some projects that cannot be mapped will benefit residents in environmental justice target areas.

Of the four bicycle and pedestrian transportation projects shown in Map E.2, two projects are located (at least in part) in an environmental justice target area. The following two bicycle and pedestrian transportation projects are located in environmental justice target areas:

- Project #3: Multi-Use Pathway in the Alliant Energy Utility Corridor on the South Side of the City of Sheboygan: Design in 2016 and 2017, and Construction in 2018 (this project passes through a census block group with a high minority population and a high population below the poverty level); and
- Project #4: Union Pacific Rail-Trail Conversion Extension in the City of Sheboygan from Pennsylvania Avenue to Indiana Avenue (Includes an Eastern Extension to South 9th Street Paralleling Indiana Avenue): Design in 2017, and Construction in 2018 (one segment of this project forms the boundary between two census block groups with very high minority populations and with high or very high populations below the poverty level, while the other segment associated with this project is located in a census block group with a very high minority population as well as a high population below the poverty level).

All of the above noted projects (as well as projects outside environmental justice target areas) are expected to benefit minority and low income populations throughout the metropolitan planning area.

Transit Projects and their Impacts on Environmental Justice Target Areas

Map E.3 shows the route structure of Shoreline Metro in comparison to environmental justice target areas within the metropolitan planning area. All of the residential portions of the targeted census block groups located within the metropolitan planning area are currently served by transit. The transit service provided allows residents of the targeted census block groups to reach nearly

all major destinations (such as major employment centers, entertainment and recreation venues, government services, health care, schools and shopping centers) in 30 minutes or less. When using transit, most residents need to walk no more than three to five blocks to reach their bus stop or destination.

TIP Projects and Direct and Indirect Impacts on Minority and/or Low Income Populations

Taken as a whole, the projects in this 2016 – 2019 TIP, together with the other public and privately funded transportation improvements and services provided in the Sheboygan Metropolitan Planning Area, do not impose disproportionately high and adverse impacts on minority populations and/or on low income populations. In addition, the benefits of the transportation services and improvements proposed are reasonably distributed to serve the mobility and accessibility needs of all population groups (and particularly of minority and/or low income populations) within the Sheboygan Metropolitan Planning Area. These statements are based on the analysis of proposed projects, their locations, and impacts on both minority and low income populations as summarized in this appendix to the TIP.

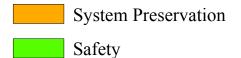
Additional environmental justice analysis can be found in Appendix E of the *Year 2045 Sheboygan Area Transportation Plan (SATP)* adopted in May of 2015.

Public Involvement of Minority and Low Income Populations

Attempts to involve minority and low income populations in the development of this TIP can be found in the *Public Participation Process* section within the main body of this 2016 – 2019 TIP.

2016-2019 Street and Highway Improvement Project Locations and Environmental Justice Target Areas

Sheboygan Metropolitan Planning Area Sheboygan County, Wisconsin



% Below Poverty Level

0% - 15.74% 15.75% - 26.05% >26.05%

% Minority

0% - 21.84%
21.85% - 33.15%

>33.15%

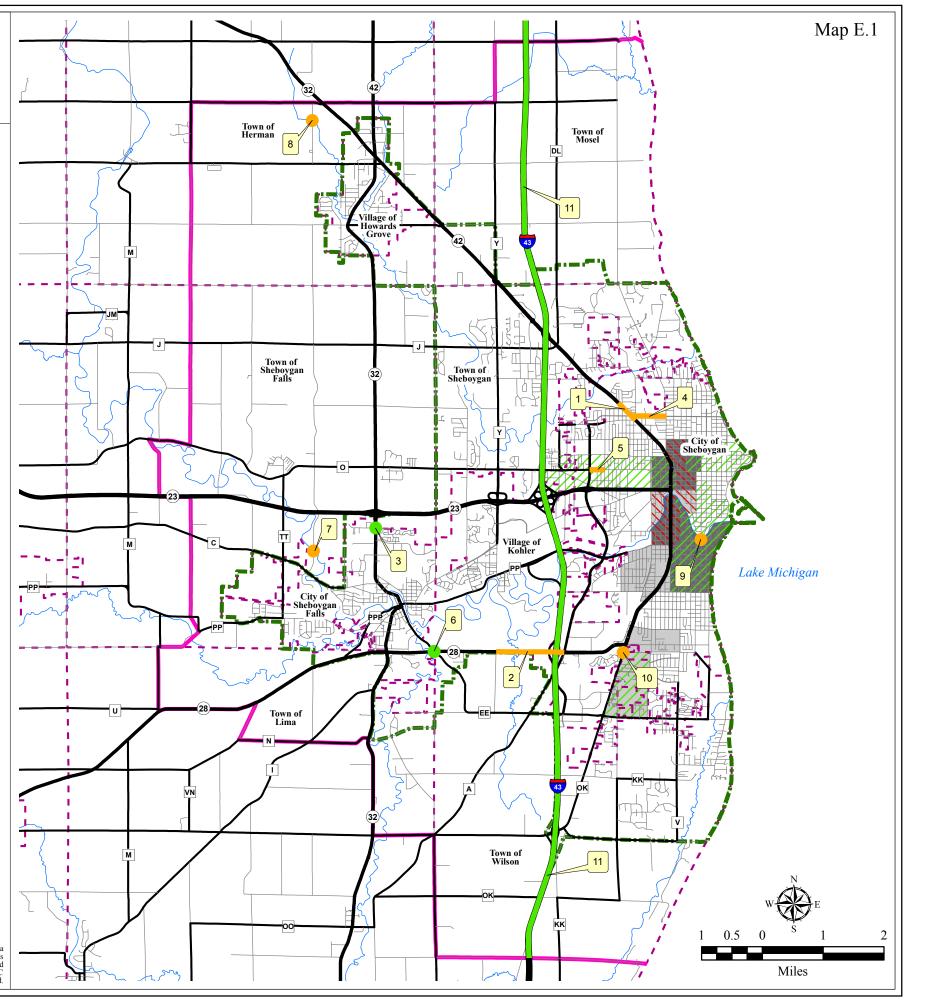
Project Locations

- STH 42/Calumet Drive
 Main Avenue to North 26th Street
 Reconstruction with no Increase in Capacity
- STH 28
 Prange Road to South Taylor Drive
 Reconstruction with no Increase in Capacity
- 3. STH 32 Intersection with Happy Lane Construction of a Roundabout
- North Avenue STH 42/Calumet Drive to North 15th Street Reconstruction with no Increase in Capacity and Rail Work (Begins in 2017 and Ends in 2018)
- Superior Avenue North Taylor Drive to North 29th Street Reconstruction with no Increase in Capacity
- 5. STH 28
 Intersection with CTH EE
 Construction of a Roundabout

- 7. Meadowlark Road Sheboygan River Bridge and Approaches Bridge Replacement
- 8. Meadowlark Road Fischer Creek Bridge and Approaches Bridge Replacement
- 9. South 8th Street Sheboygan River Bridge Bridge Rehabilitation
- 10. South Business Drive Railroad Overpass South of Washington Avenue Bridge Replacement
- 11. IH 43 Wilson Lima Road to Fischer Creek Road Miscellaneous Cable Guard

Sheboygan Urbanized Area Boundary
Sheboygan Metropolitan Planning Area Boundary

December, 2015 G:\Sheboygan\MPO\TIP\TIP 2016-2019 Source: WDNR; Sheboygan County, 2015; Bay-Lake Regional Planning Commission, 2015. This map is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only. Bay-Lake RPC is not responsible for any inaccuracies herein contained.



2016-2019 Bicycle and Pedestrian Transportation Project Locations and Environmental Justice Target Areas

Sheboygan Metropolitan Planning Area Sheboygan County, Wisconsin



Bicycle and Pedestrian Accommodations

% Below Poverty Level

0% - 15.74%

15.75% - 26.05%

>26.05%

% Minority

0% - 21.84%

21.85% - 33.15%

>33.15%

Project Locations

- 1. Bicycle/Pedestrian Path on Taylor Drive
- 2. Bridge for Bicyclists and Pedestrians over the Sheboygan River near the Former Tecumseh Engines Plant in the City of Sheboygan Falls
- 3. Multi-Use Pathway in the Alliant Energy Utility Corridor on the South Side of the City of Sheboygan
- 4. Union Pacific Rail/Trail Conversion Extension in the City of Sheboygan: Pennsylvania Avenue to Indiana Avenue (Includes an Eastern Extension to South 9th Street Paralleling Indiana Avenue)

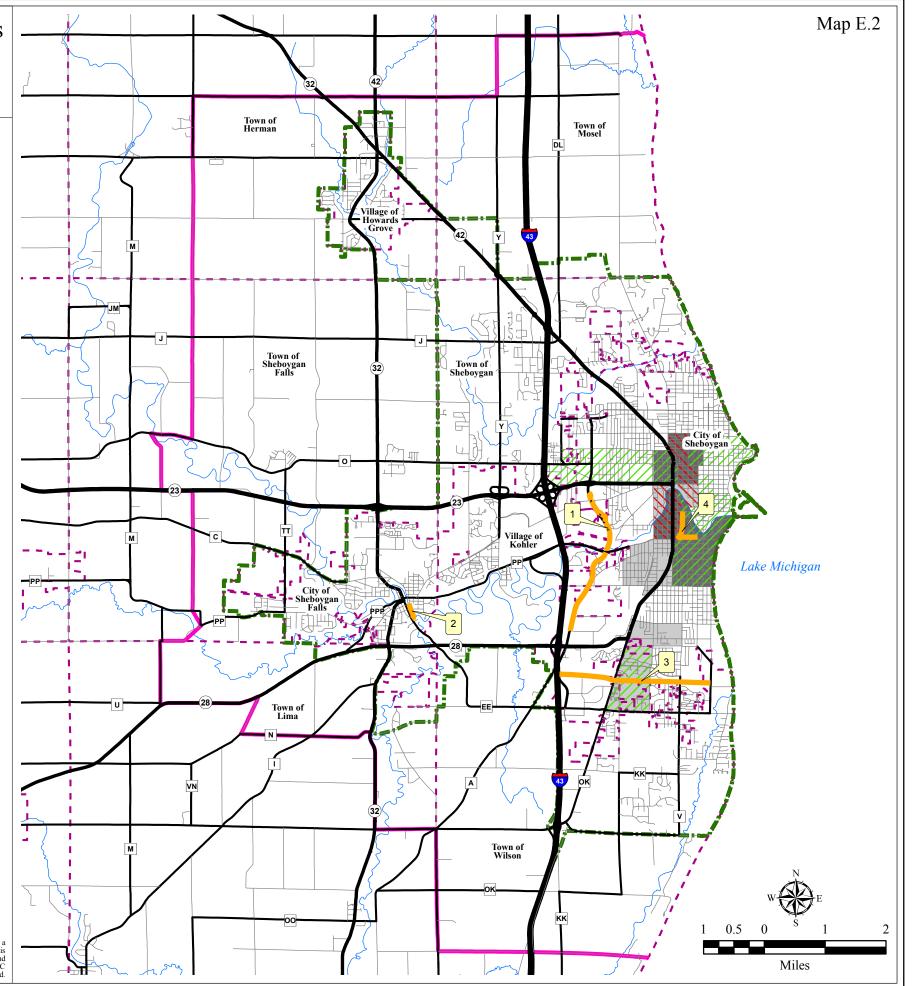


Sheboygan Urbanized Area Boundary

Sheboygan Metropolitan Planning Area Boundary

December, 2015 G:\Sheboygan\MPO\TIP\TIP 2016-2019 Source: WDNR; Sheboygan County, 2015; Bay-Lake Regional Planning Commission, 2015.

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Shoreline Metro Fixed Routes and Environmental Justice Target Areas

Sheboygan Metropolitan Planning Area Sheboygan County, Wisconsin

Route No. 3 North-South

Noute No. 5 North-South

Route No. 7 North-South

Noute No. 10 North-South

Noute No. 20

Noute No. 30

Noute No. 40 (Seasonal)

,,,,,, Route Deviation

% Below Poverty Level

0% - 15.74%

15.75% - 26.05%

>26.05%

% Minority

0% - 21.84%

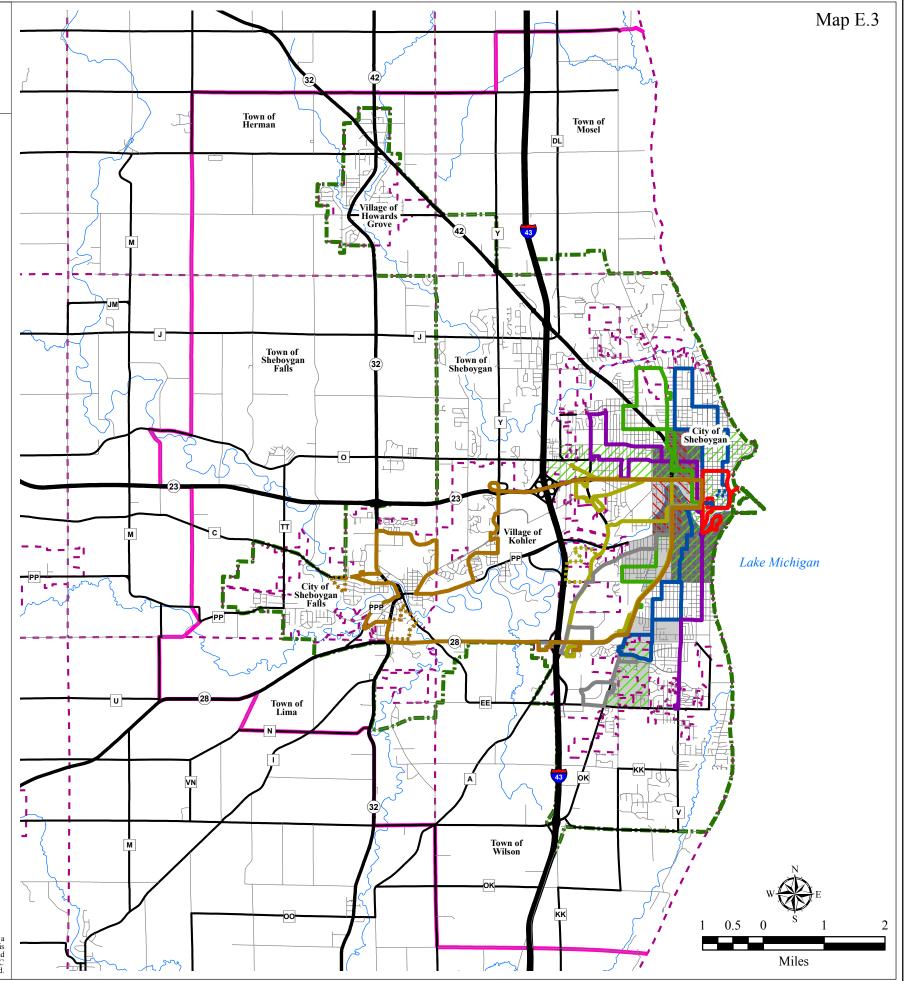
21.85% - 33.15%

>33.15%

Sheboygan Urbanized Area Boundary
Sheboygan Metropolitan Planning Area Boundary

December, 2015 Q:\Myfiles\Sheboyga\TIP\TIP 2016-2019 Source: WDNR; Sheboygan County, 2015; Bay-Lake Regional Planning Commission, 2015.

This map is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only. Bay-Lake RPC



APPENDIX F MPO APPROVAL OF TIP

RESOLUTION 7-2015

Resolution of the Bay-Lake Regional Planning Commission approving the Sheboygan Metropolitan Planning Area Transportation Improvement Program (TIP): Calendar Years 2016 – 2019, determining air quality conformity for the Year 2045 SATP and its implementing 2016 – 2019 TIP, and certifying the Metropolitan Transportation Planning Process for the Sheboygan Metropolitan Planning Area.

WHEREAS, the Bay-Lake Regional Planning Commission is the officially designated Metropolitan Planning Organization (MPO) for metropolitan transportation planning in the Sheboygan Metropolitan Planning Area; and

WHEREAS, U.S. Department of Transportation regulations provide for self-certification that the metropolitan transportation planning process is being carried out in conformance with all applicable requirements of Federal law; and

WHEREAS, metropolitan transportation planning, including the preparation of Transportation Plans and Transportation Improvement Programs (TIPs) or TIP Amendments, is required of metropolitan planning areas and by Federal statutes and regulations within the purview of the U.S. Department of Transportation, including Title 23 of the U.S. Code, Section 134 (and its implementing regulation, 23 CFR 450[c], as amended), and Title 49, U.S. Code (Federal Transit Act, as amended); and

WHEREAS, the *Year 2045 SATP* was adopted by the Bay-Lake Regional Planning Commission in May 2015 following a plan preparation effort involving public outreach and numerous meetings of the Sheboygan MPO Technical and Policy Advisory Committees; and

WHEREAS, a specific air quality conformity analysis was undertaken with respect to the Sheboygan County non-attainment area for ground-level ozone, with the result that the Year 2045 SATP and its implementing 2016-2019 TIP (which superseded the 2015-2018 TIP with no additional projects that were determined to be non-exempt from regional emissions analysis) have been determined to conform to the existing State of Wisconsin implementation plan for the achievement and maintenance of national ambient air quality standards, as required by the Federal Clean Air Act Amendments of 1990 and their implementing regulations; and

WHEREAS, citizen input was received on the $2016-2019\ TIP$ through a public participation process which included a public comment period and public hearing, as well as public meetings of the Sheboygan MPO Technical and Policy Advisory Committees, and which otherwise conformed to provisions for TIP development in the 2012 update to the *Sheboygan MPO Public Participation Plan*; and

WHEREAS, the 2016 – 2019 TIP for the Sheboygan Metropolitan Planning Area was reviewed (and modified, where necessary) by professionals and by elected officials representing municipalities in the Sheboygan Metropolitan Planning Area as well as by private sector transportation providers before subsequently being recommended for approval by the Sheboygan MPO Technical and Policy Advisory Committees at their joint meeting on December 10, 2015.

NOW, THEREFORE BE IT RESOLVED:

<u>FIRST</u>: That the Bay-Lake Regional Planning Commission approves the *Sheboygan Metropolitan Planning Area Transportation Improvement Program (TIP): Calendar Years* 2016 – 2019 as being compatible with existing transportation plans and programs in the Sheboygan Metropolitan Planning Area.

<u>SECOND</u>: That the Bay-Lake Regional Planning Commission determines that the *Year 2045 SATP* and its implementing *2016 – 2019 TIP* for the Sheboygan Metropolitan Planning Area conform to the State of Wisconsin Implementation Plan for the achievement and maintenance of national ambient air quality standards, as required by the Federal Clean Air Act Amendments of 1990 and their implementing regulations.

<u>THIRD</u>: That the Bay-Lake Regional Planning Commission, as MPO for the Sheboygan Metropolitan Planning Area, and in accordance with 23 CFR 450.334(a), hereby certifies that the metropolitan transportation planning process is addressing major issues facing the Sheboygan Metropolitan Planning Area, and is being conducted in accordance with all applicable requirements of:

- (1) 23 U.S.C. 134 and 49 U.S.C. 5303, and this subpart;
- (2) Sections 174 and 176 (c) and (d) of the Clean Air Act as amended (42 U.S.C. 7504, 7506 (c) and (d)) and 40 CFR Part 93:
- (3) Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR Part 21;
- (4) 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
- (5) Sections 1101 (b) of the "Moving Ahead for Progress in the 21st Century" Act (MAP-21, Pub. L. 112-141) and 49 CFR Part 26 regarding the involvement of disadvantaged business enterprises in the US DOT funded projects;
- (6) 23 CFR Part 230, regarding the implementation of an equal opportunity program on Federal and Federalaid highway construction contracts;
- (7) The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et. seq.) and 49 CFR Parts 27, 37 and 38;
- (8) The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
- (9) Section 324 of Title 23, U.S.C., regarding the prohibition of discrimination based on gender; and
- (10) Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR 27 regarding discrimination against individuals with disabilities.

<u>FOURTH</u>: That the Bay-Lake Regional Planning Commission certifies that the 2016 – 2019 TIP for the Sheboygan Metropolitan Planning Area contains only projects that are consistent (in scope, termini and the implementation schedule) with the Year 2045 Sheboygan Area Transportation Plan (SATP).

<u>FIFTH</u>: That the Bay-Lake Regional Planning Commission endorses the continuation of the urban transportation planning process in the Sheboygan Metropolitan Planning Area.

Donald C. Markwardt, Chairperson Bay-Lake Regional Planning Commission

ATTEST:

I, Alice M. Baumgarten, Secretary-Treasurer of the Bay-Lake Regional Planning Commission, hereby certify that the above is a true copy of a resolution adopted by the Bay-Lake Regional Planning Commission on the 11th day of December, 2015.

Alice M. Baumgarten, Secretary-Tressurer
Bay-Lake Regional Planning Commission

APPENDIX G SURFACE TRANSPORTATION PROGRAM (STP) URBAN SYSTEM PROJECT PRIORITIZATION POLICY

SURFACE TRANSPORTATION PROGRAM URBAN SYSTEM PROJECT PRIORITIZATION POLICY TRANSPORTATION IMPROVEMENT PROGRAMS

SHEBOYGAN URBANIZED AREA

As Revised: Effective November 1, 2014

I. Surface Transportation Program (STP) Urban Project Eligibility

Street and highway construction projects on arterial and collector routes within the Sheboygan Urbanized Area, transit capital projects and transportation alternatives projects in the Sheboygan Urbanized Area, in general, are eligible for STP Urban funding. The following are guidelines which shall be used by the MPO in determining whether street and highway construction, transit capital and transportation alternatives projects have sufficient priority to be included as STP Urban eligible projects in a Transportation Improvement Program (TIP):

- A. The costs of feasibility studies are not eligible for STP Urban funding. However, engineering or design costs are eligible for funding.
- B. Right-of-way acquisition costs are eligible for STP Urban funding. However, such right-of-way acquisition must meet all state and federal guidelines.
- C. Isolated traffic signal installation projects are not eligible for STP Urban funding. However, applicants for such projects are encouraged to apply for funding under the Highway Safety Improvement Program (HSIP).
- D. Railroad crossing projects are not eligible for STP Urban funding unless they are part of an STP Urban eligible project.
- E. The sponsoring local government or governments is (or are) required to present evidence from their Capital Improvement Program indicating financial commitment to the local share of the project if funded, and also must submit a WisDOT project worksheet to the MPO and to the WisDOT Northeast Region office by the deadline established by the MPO for the upcoming biennium.

II. Project Level Tests of STP Urban Project Eligibility

The following tests of eligibility must be satisfied before a project can proceed to the prioritization categories:

- A. The project must be submitted by a local jurisdiction for inclusion in an upcoming Transportation Improvement Program (TIP). In addition, the overall TIP must be in conformity with the Wisconsin Department of Natural Resources' State Implementation Plan (SIP) for Air Quality, as required by the Clean Air Act Amendments (CAAA) of 1990.
- B. The project must appear as a recommendation in the Sheboygan Area Transportation Plan (SATP), in its various components. If the project is not in the SATP, the SATP must be amended to include the project.

C. Engineering and design are eligible costs under this program. However, preliminary engineering must be completed before a project may be eligible for construction funding. Evidence of cost estimates based on completed preliminary engineering for the project must be attached to the WisDOT project worksheet.

III. Special Conditions of the Prioritization Process

Alternate financing sources should be used whenever possible before considering STP Urban funds to finance a project. Examples of such alternate financing sources for street and highway improvements include the National Highway Performance Program (for bridges on the National Highway System network), the Surface Transportation Program (for bridges off the NHS network), the state Transportation Economic Assistance (TEA) program, the Congestion Management and Air Quality (CMAQ) improvement program, the HSIP program, and the Local Roads Improvement Program (LRIP). Examples of such alternate financing sources for transit capital improvements include the FTA Section 5307 and Section 5339 programs and the CMAQ program. Examples of such alternate financing sources for transportation alternatives include the TAP and CMAQ programs.

Federal funding participation for any project in this program cannot be more than 80 percent of total project costs. In an effort to make federal participation worth the paperwork involved with any project financed by state and/or federal funds, the MPO has established a 50 percent minimum for federal participation on most projects. Exceptions can be made for high-cost projects which are expected to utilize more than half the federal STP Urban allotment made to the Sheboygan Urbanized Area in any given funding period.

IV. STP Urban Project Prioritization Criteria

The criteria in this section shall be used to evaluate STP Urban eligible projects in order to establish priorities based on need. These criteria include current or potential demand, importance of the facility in the urban transportation system, and condition of the facility, corridor, vehicle or equipment. Overall score determines the priority of all eligible projects, with the highest score receiving top priority in each project category.

A. Current or Potential Demand. This is an indicator of capacity problems with a street or highway, transit vehicle or bicycle or pedestrian facility. In the case of street or highway improvements to existing facilities, a higher volume-to-capacity ratio receives a higher score. In the case of new streets or highways, a volume-to-capacity ratio close to 0.70 receives a higher score. The projected "no build" volume-to-capacity ratios under the recommended growth scenario calculated for the current SATP will be applied in determining the volume-to-capacity ratios for improvements to existing facilities under this criterion. The projected volume-to-capacity ratios under the "recommended plan" and the recommended growth scenario calculated for the current SATP will be applied in determining the volume-to-capacity ratios for new streets or highways under this criterion.

In the case of transit vehicle improvements, a higher vehicle load factor receives a higher score. The vehicle load factor for a specific route will be used when transit vehicle improvements can be attributed to that route. Otherwise, a systemwide vehicle load factor will be used to evaluate transit vehicle improvements. In the case

of other transit capital improvements, a score of 5 will be assigned to such improvements.

In the case of transportation alternatives, a large amount of potential use on a typical summer day by bicyclists, pedestrians and other non-motorized traffic receives a higher score.

STREET OR HIGHWAY RECONSTRUCTION		TRANSIT VEHICLE IMPROVEMENTS	
Volume-to-Capacity Ratio	<u>Score</u>	Vehicle Load Factor	<u>Score</u>
1.01 or higher	10	1.01 or higher	10
0.81 - 1.00	8	0.81 - 1.00	8
0.61 - 0.80	6	0.61 - 0.80	6
0.41 - 0.60	4	0.41 - 0.60	4
0.21 - 0.40	2	0.21 - 0.40	2
0.01 - 0.20	0	0.01 - 0.20	0

GHWAYS	OTHER TRANSIT CAPIT	AL IMPROVEMENTS
Score	All Eligible Projects	Score
0		5
5		
10		
7		
3		
0		
	Score 0 5 10 7	Score 0 5 10 7

TRANSPORTATION ALTERNATIVES

Potential Daily Use	<u>Score</u>
250 or higher	10
200 - 249	8
150 - 199	6
100 - 149	4
50 - 99	2
0 - 49	0

B. *Importance of the Facility in the Urban Transportation System*. This is an indicator of an existing or planned street or highway, transit vehicle or capital improvement or transportation alternative in the transportation system of the Sheboygan Urbanized Area. In the case of existing or planned street or highway improvements, this criterion gives priority to the improvement of principal arterial routes over minor arterial routes, and of minor arterial routes over collector routes.

In the case of transit vehicle or capital improvements, the transit director will prioritize transit vehicle or other transit capital improvements being considered for STP Urban funds into six tiers assigned points as described below. Transit capital STP Urban candidate projects will be limited based on agency need and available funding.

In the case of transportation alternatives, consistency with recommendations made in the most current *Sheboygan County Pedestrian and Bicycle Comprehensive Plan* determines the importance of the facility in the urban transportation system as

described below. Transportation alternatives which do not provide directly for bicycle, pedestrian or other non-motorized transportation purposes are assigned one point under this criterion.

ALL STREET OR HIGHWAY IMPROVEMENTS		<u> ALL TRANSIT CAPITAL</u>	
		<u>IMPROVEMENTS</u>	
Functional Classification	Score .	Director's Classification	<u>Score</u>
Principal Arterial	5	First Tier	5
Minor Arterial	4	Second Tier	4
(greater than 10,000 ADT)		Third Tier	3
Minor Arterial	3	Fourth Tier	2
(less than 10,000 ADT)		Fifth Tier	1
Collector (greater than 5,000 ADT)	2	Sixth Tier	0
Collector (less than 5,000 ADT)	1		
Local Street	0		
	EIX /IE O		
TRANSPORTATION ALTERNAT			
Pedestrian/Bicycle Plan Consistence	•	<u>re</u>	
Completely Consistent (Facility Ty	•		
Scope and Timing)	5		
Generally Consistent (Facility Type			
Scope)	4		
Somewhat Consistent (Facility Typ	·		
Somewhat Inconsistent (Scope AN			
are Consistent, but not Facility T			
Generally Inconsistent (Scope OR	•		
Consistent)	1		
Transportation Alternatives which			
Provide Directly for Bicycle, Ped			
Other Non-motorized Transporta	ition		
Purposes	1		
Completely Inconsistent	0		

C. Condition. An indicator of the degree to which pavements, vehicles, equipment, or corridors for bicyclists and pedestrians are deficient in project areas where STP Urban funds are being considered in the TIP process. A higher score means that the pavement, transit capital item, bicycle corridor or pedestrian corridor is in poorer condition. Pavement Management Systems will be utilized in determining the pavement condition of existing streets and highways examined under this policy. In the City of Sheboygan, the pavement management system maintained by the city Department of Public Works will be utilized to evaluate the pavement deficiencies of streets and highways involving candidate projects, then converted to a score equivalent to the PASER pavement management system. The PASER system will be used to evaluate the pavement condition of all other candidate STP Urban projects in the Sheboygan Urbanized Area. All new streets and highways shall be assigned an automatic ten points under this criterion.

In the case of transit vehicle or capital improvements, existing vehicle or equipment age, useful life of the vehicle or equipment as determined by FTA, and physical condition of the existing vehicle or equipment or conditions leading to the need for

additional vehicles or equipment will be considered in determining the condition of vehicles and equipment examined under this policy.

In the case of transportation alternatives, the Guide for the Development of Bicycle Facilities and the Guide for the Planning, Design and Operation of Pedestrian Facilities (both of which are produced by the American Association of State Highway and Transportation Officials, or AASHTO) will be used in determining the condition of corridors for bicyclists and pedestrians.

STREET OR HIGHWAY RECON	NSTRUCTI	<u>ION</u> <u>ALL OTHER IMPRO</u>	VEMENTS
Pavement Condition	<u>Score</u>	<u>Condition</u>	<u>Score</u>
Very Poor - Failure		Very Poor - Failure	10
(Needs Reconstruction)	10	Poor	8
Poor (Needs Patching, Major		Fair	6
Overlay, or Complete		Good	4
Recycling)	8	Very Good	2
Fair (Sealcoat or Nonstructural		Excellent	0
Overlay Required)	6		
Good (Crack Filling Required;			
Sealcoat Recommended)	4		
Very Good (Recent Sealcoat or			
New Road Mix)	2		
Excellent (New Construction or			
Recent Overlay)	0		
NEW STREETS OR HIGHWAYS	<u>S</u> <u>1</u>	NEW TRANSPORTATION ALTE	RNATIVES
All Eligible Projects Score		All Eligible Projects Score	
10		10	

NEW STREETS OR F	<u>HGHWAYS</u>	<u>NEW TRANSPORTAT</u>	ION ALTERN	ATIVES
All Eligible Projects	<u>Score</u>	All Eligible Projects	<u>Score</u>	
	10		10	

Multimodalism. This criterion evaluates whether a candidate project includes alternatives to single occupancy vehicle transportation. This can include transit and non-motorized transportation (including bicycle and pedestrian travel). Examples include newly constructed or reconstructed sidewalks, roadways with appropriate bearing capacity for buses, bus loading zones, bus lanes and construction of lanes with adequate widths for bicycles. Projects must serve as general use to the public. Projects which incorporate alternative facilities that primarily serve a transportation purpose rather than a recreational purpose will receive higher priority. Transit and most transportation alternative projects will receive 1, 3 or 5 points, depending on the number of alternate modes which they ultimately serve.

ALL PROJECTS

Number of Alternate Modes Served	Points
Adds Three Alternate Modes	5
Adds Two Alternate Modes	3
Adds One Alternate Mode	1
Adds No Alternate Modes	0
Deletes One Alternate Mode	-1
Deletes Two Alternate Modes	-3
Deletes Three Alternate Modes	-5

E. *Transportation Safety*. This criterion is based on an assessment of existing safety problems and the extent to which the proposed project will reduce such problems. Crash statistics and standards should be used when considering street and highway projects, while more qualitative safety aspects should be considered for bicycle and pedestrian transportation projects and for transit capital projects. In addition, this criterion emphasizes a goal of eliminating or minimizing corridor or intersection safety problems on the system. In the case of street and highway projects, alternative ratings are available by project type based on segment crash rates, high accident intersection locations and new facilities.

Street and Highway Improvement Projects

In the case of street and highway improvement projects, alternative ratings are available by project type based on segment crash rates, high accident intersection crash rates, and new facilities.

Segment Crash Rates

WisDOT determines average crash rates per 100 million vehicle miles traveled by facility type or functional classification. These crash rates can be determined for mid-block segments of urban streets.

Crash Rate	Score
280 or more	5
150 to 279	3
1 to 149	1
0	0

High Accident Intersections

Crash rates at intersections are scored as follows:

Crash Rate	<u>Score</u>
5 or more	5
3 to 4	3
1 to 2	1
0	0

New Facilities

An assumption is made that an increase in travel options improves the efficiency and safety of the existing infrastructure by shifting trips traveled to safer facilities.

Safety Determination	<u>Score</u>
Safety concerns addressed without compromising usefulness;	
promotes increased use by all user groups	5
Safety measures may encourage increased use by many user	
groups, but discourage use by a few user groups	3
Safety measures encourage increased use by some user groups,	
but discourage use by a fairly equal number of user groups	1

G-6

adequately addressed	0
Bicycle and Pedestrian Transportation Projects	
Safety Determination	Score
The bicycle or pedestrian transportation project would have a	
high, positive impact on safety (i.e.: reduction in crashes)	5
The bicycle or pedestrian transportation project would have a	
moderate, positive impact on safety	3
The bicycle or pedestrian transportation project would have a	
low positive impact on safety	1
The bicycle or pedestrian transportation project would have no	
impact on safety	0
Transit Capital Improvements	
Safety Determination	Score
The transit capital project would have a high, positive impact on safety	5
The transit capital project would have a moderate, positive impact on safety	3
The transit capital project would have a low positive impact on	3
safety	1
The transit capital project would have no impact on safety	0
	· ·

Facility use definitely decreases, or safety concerns cannot be

APPENDIX H TRANSITION IN PROGRAMMING FROM SAFETEA-LU TO MAP-21 FUNDING PROGRAMS

Transition in Programming from SAFETEA-LU to MAP-21 Funding Programs

Federal-aid highway and transit funding programs changed effective October 1, 2012 as a result of the 2012 transportation reauthorization act *Moving Ahead for Progress in the 21st Century Act* (MAP-21). The TIP reflects project programming based on the previous SAFETEA-LU funding programs. SAFETEA-LU program eligibility was retained within the condensed structure of the MAP-21 funding programs. The following table indicates how SAFETEA-LU funding programmed in the TIP relates to MAP-21 revenue programs while the transition in programming is underway.

Federal-aid Highway Programs

MAP-21	SAFETEA-LU
National Highway Performance Program (NHPP)	NHS, IM, & Bridge (on NHS)
Surface Transportation Program (STP)	STP & Bridge (non-NHS)
Congestion Mitigation & Air Quality Improvement Program (CMAQ)	CMAQ
Highway Safety Improvement Program (HSIP)	HSIP (incl. High Risk Rural Roads)
Railway-Highway Grade Crossing	Railway Highway Grade Crossing
Transportation Alternatives	Transportation Enhancements, Safe Routes to
	School, Recreational Trails

Federal-aid Transit Programs

MAP-21	SAFETEA-LU
Urbanized Area Formula Grants (5307)	Urbanized Area Formula Grants (5307)
	Job Access & Reverse Commute Program (5316) (Part)
Enhanced Mobility of Seniors and Individuals	Elderly & Persons with Disabilities Program (5310)
with Disabilities (5310)	New Freedom Program (5317)
Rural Area Formula Grants (5311)	Nonurbanized Area Formula Program (5311)
	Job Access & Reverse Commute Program (5316) (Part)
State of Good Repair Program (5337) (Formula)	Fixed Guideway Modernization (5309)
	(Discretionary)
Bus and Bus Facilities Formula Program (5339)	Bus and Bus-Related Projects (5309) (Discretionary)
Fixed Guideway Capital Investment Grants (5309)	New Starts & Small Starts Programs (5309)
	(Discretionary)

APPENDIX I SHEBOYGAN MPO TECHNICAL AND POLICY ADVISORY COMMITTEE MEMBERS

SHEBOYGAN METROPOLITAN PLANNING ORGANIZATION TECHNICAL ADVISORY COMMITTEE (December 2015)

Marisol Simon, Regional Adm.

FTA Region 5 Chicago

Kevin Struck

Growth Management Educator Sheboygan Co. UW Extension

Sheboygan

Steve Sokolowski

City of Sheboygan Dept. of Planning and Development

Sheboygan

Aaron Brault

Sheboygan County Planning and Conservation Department

Sheboygan

Diane Paoni, Urban Planning Section

WisDOT Bureau of Planning & Economic Development

Madison

Greg Schnell**, Director

Sheboygan County Transportation Dept.

Sheboygan

Mary Forlenza (Ex-Officio Member)

Federal Highway Administration, Wisconsin Division

Madison

Ryan Sazama

City of Sheboygan DPW Engineering Division

Sheboygan

Jerry Benzschawel, Director

City of Sheboygan Falls Public Works Department

Sheboygan Falls

Derek Muench, Director

Shoreline Metro Sheboygan

Steve Hirshfeld

WisDOT Bureau of Transit, Local Roads, Railroads & Harbors

Matt Halada

WisDOT Northeast Region

Green Bay

Ryan Welsing

Village of Howards Grove

Charles Sweet

Sheboygan Co. Memorial Airport

Sheboygan Falls

Peter McMullen

Wisconsin DNR Southeast Region

Milwaukee

Mark Winkel

Eastern WI Counties Railroad Consortium

Sheboygan

David Smith

Bicycling Advocate

Sheboygan

David Biebel*, Director

Department of Public Works

City of Sheboygan

Christopher Bovee

Bureau of Air Management

Wisconsin DNR

Madison

Jeremiah Schiefelbein

Wisconsin DNR Northeast Region

Green Bay

Cory Roeseler

Sheboygan Co. Traffic Safety Commission

Sheboygan

Brett Edgerle Village of Kohler

Madison

*Indicates Committee Chair

**Indicates Committee Vice-Chair

SHEBOYGAN METROPOLITAN PLANNING ORGANIZATION POLICY ADVISORY COMMITTEE (December 2015)

Tom Wegner, Vice Chairperson Sheboygan County Board

Steven Bauer*, Chairperson Town of Sheboygan Falls

John Ehmann, Chairperson Town of Wilson

William Blashka (for Daniel Hein, Chairperson) Town of Sheboygan

Tom Schnettler, President Village of Kohler

Randy Meyer, Mayor City of Sheboygan Falls

Michael Vandersteen, Mayor City of Sheboygan

Dirk Zylman, Chairperson Town of Mosel

Charles Born**, Chairperson Town of Lima

James Scheiber, President Village of Howards Grove

Ald. Darryl Carlson, Chairman Sheboygan Transit Commission Sheboygan

Jeffrey Sixel, Chairperson Town of Herman

Will Dorsey, Director WisDOT Northeast Region Green Bay

*Indicates Committee Chair

**Indicates Committee Vice-Chair

BAY-LAKE REGIONAL PLANNING COMMISSION

www.baylakerpc.org

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