

TABLE C-1: Greenhouse Gas Regional Highway Project Tracking

MassDOT Project ID	MassDOT Project Description	GHG Analysis Type	GHG CO ₂ Impact (kg/yr)	GHG Impact Description
606223	Acton-Concord - Bruce Freeman Rail Construction (Phase II-B)	Quantified		TBD
607748	Acton - Intersection and Signal Improvements on SR 2 and SR 111 (Massachusetts Avenue) at Piper Road and Taylor Road	Quantified		TBD
606381	Arlington - Belmont - Highway Lighting Repair and Maintenance on Route 2	Qualitative		No assumed impact/negligible impact on emissions
604123	Ashland - Reconstruction on Route 126 (Pond Street) from Framingham Town Line to Holliston Town Line	Quantified	140,616	Quantified Decrease in Emissions from Complete Streets Project
29492	Bedford- Billerica- Middlesex Turnpike Improvements, from Crosby Drive North to Manning Road, includes Reconstruction of B-04-006 (Phase III)	Quantified		RTP project included in the statewide model
608347	Beverly- Intersection Improvements at 3 Locations: Cabot Street (Route 1A/97) at Dodge Street (Route 1A), County Way, Longmeadow Road and Scott Street, McKay Street at Balch Street and Veterans Memorial Bridge (Route 1A) at Rantoul, Cabot, Water, and Front Streets	Quantified	582,422	Quantified Decrease in Emissions from Traffic Operational Improvement
608614	Boston - Superstructure Replacement, B-16-179, Austin Street over I-93 Ramps, MBTA Commuter Rail and Orange Line	Qualitative		No assumed impact/negligible impact on emissions
604173	Boston- Bridge Rehabilitation, B-16-016, North Washington Street over the Boston Inner Harbor	Qualitative		Qualitative Decrease in Emissions
607888	Boston- Brookline- Multi-Use Path Construction on New Fenway	Quantified	96,163	from Bicycle and Pedestrian Infrastructure
605733	Boston- Highway Lighting System Replacement on I-93, from Southampton Street to Neponset Avenue	Qualitative		No assumed impact/negligible impact on emissions
605733	Boston- Highway Lighting System Replacement on I-93, from Southampton Street to Neponset Avenue	Qualitative		No assumed impact/negligible impact on emissions
606453	Boston- Improvements on Boylston Street, from Intersection of Brookline Avenue and Park Drive to Ipswich Street	Quantified	1,780,834	Quantified Decrease in Emissions from Complete Streets Project
607759	Boston- Intersection and Signal Improvements at the VFW Parkway and Spring Street	Quantified		TBD
604761	Boston- Multi-Use Trail Construction (South Bay Harbor), from Ruggles Station to Fort Point Channel	Quantified	767,491	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
608234	Boston- Randolph- Bridge Preservation of 3 Bridges: B-16-165, R-01-005 and R-01-007	Qualitative		No assumed impact/negligible impact on emissions
605789	Boston- Reconstruction of Melnea Cass Boulevard	Quantified		TBD
606226	Boston- Reconstruction of Rutherford Avenue, from City Square to Sullivan Square	Quantified		RTP project included in the statewide model
606134	Boston- Traffic Signal Improvements on Blue Hill Avenue and Warren Street	Quantified		TBD

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608009	Boxborough- Bridge Replacement, B-18-002, Route 111 over I-495	Qualitative		No assumed impact/negligible impact on emissions
608608	Braintree - Highway Lighting Improvements at I-93/Route 3 Interchange	Qualitative		No assumed impact/negligible impact on emissions
605110	Brookline- Intersection and Signal Improvements at Route 9 and Village Square (Gateway East)	Quantified	66,226	Quantified Decrease in Emissions from Complete Streets Project
606316	Brookline- Pedestrian Bridge Rehabilitation, B-27-016, over MBTA Old Canton Street	Qualitative		Qualitative Decrease in Emissions
608149	Burlington- Bridge Replacement, B-29-010, I-95/St 128 (NB) and I-95/St 128 (SB) over Route 3A (Cambridge Street)	Qualitative		No assumed impact/negligible impact on emissions
608482	Cambridge- Somerville- Resurfacing and Related Work on Route 28	Qualitative		No assumed impact/negligible impact on emissions
608484	Canton- Milton- Resurfacing and Related Work on Route 138	Qualitative		No assumed impact/negligible impact on emissions
608599	Canton-Foxborough-Norwood-Walpole- Stormwater Improvements along Route 1, Route 1A, and Interstate 95	Qualitative		No assumed impact/negligible impact on emissions
608611	Canton-Milton-Randolph - Replacement and Rehabilitation of the Highway Lighting System at the Route 24/Route 1/I-93 Interchange	Qualitative		No assumed impact/negligible impact on emissions
608206	Chelsea to Danvers- Guide and Traffic Sign Replacement on a Section of US Route 1	Qualitative		No assumed impact/negligible impact on emissions
BN1800	Community Transportation Program	Quantified		TBD
608220	Concord- Resurfacing and Related Work on Route 2	Qualitative		No assumed impact/negligible impact on emissions
608478	Concord- Resurfacing and Related Work on Route 2	Qualitative		No assumed impact/negligible impact on emissions
607954	Danvers- Bridge Replacement, D-03-018, St 128 over Waters River	Qualitative		No assumed impact/negligible impact on emissions
607901	Dedham- Pedestrian Improvements along Elm Street and Rustcraft Road Corridors	Quantified	13,608	Quantified Decrease in Emissions from Complete Streets Project
605608	Dedham- Resurfacing and Related Work on Route 109	Qualitative		No assumed impact/negligible impact on emissions
608596	Essex- Bridge Preservation, E-11-001, Route 133/Main Street over Essex River	Qualitative		No assumed impact/negligible impact on emissions
607998	Everett - Improvements at Madelaine English (SRTS)	Qualitative		Qualitative Decrease in Emissions
607652	Everett- Reconstruction of Ferry Street, South Ferry Street and a Portion of Elm Street	Quantified	415,498	Quantified Decrease in Emissions from Complete Streets Project
608210	Foxborough- Plainville- Wrentham- Franklin- Interstate Maintenance and Related Work on I-495	Qualitative		No assumed impact/negligible impact on emissions

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608480	Foxborough- Walpole- Resurfacing and Related Work on Route 1	Qualitative		No assumed impact/negligible impact on emissions
607732	Framingham- Natick- Cochituate Rail Trail Construction including Pedestrian Bridge, N-03-014, over Route 9 and F-07-033=N-03-029 over Route 30	Quantified	78,019	from Bicycle and Pedestrian Infrastructure
608228	Framingham- Reconstruction of Union Avenue, from Proctor Street to Main Street	Quantified	-196,862	Quantified Increase in Emissions
BN1570	Green Line Extension Project- Extension to College Avenue with the Union Square Spur	Quantified		RTP project included in the statewide model
606553	Hanover- Norwell- Superstructure Replacement, H-06-010, St 3 over St 123 (Webster Street) and N-24-003, St 3 over ST 123 (High Street)	Qualitative		Qualitative Decrease in Emissions
600518	Hingham- Intersection Improvements at Derby Street, Whiting Street (Route 53) and Gardner Street	Quantified	-113,400	Quantified Increase in Emissions
607309	Hingham- Reconstruction and Related Work on Derby Street, from Pond Park Road to Cushing Street	Quantified	351,994	Quantified Decrease in Emissions from Complete Streets Project
606501	Holbrook- Reconstruction of Union Street (Route 139), from Linfield Street to Centre Street/Water Street	Quantified	4,536	Quantified Decrease in Emissions from Complete Streets Project
607428	Hopedale- Milford- Resurfacing and Intersection Improvements on Route 16 (Main Street), from Water Street West to Approximately 120 Feet West of the Milford/Hopedale Town Line and the Intersection of Route 140	Quantified	186,883	Quantified Decrease in Emissions from Complete Streets Project
606043	Hopkinton- Signal and Intersection Improvements on Route 135	Quantified	1,194,782	Quantified Decrease in Emissions from Complete Streets Project
606632	Hopkinton- Westborough- Bridge Replacement, H-23-006=W-24-016, Fruit Street over CSX and Sudbury River	Qualitative		No assumed impact/negligible impact on emissions
607977	Hopkinton- Westborough- Reconstruction of I-90/I-495 Interchange	Quantified		RTP project included in the statewide model
608379	Lexington- Belmont- Arlington- Cambridge- Pavement Preservation on Route 2	Qualitative		No assumed impact/negligible impact on emissions
602077	Lynn- Reconstruction on Route 129 (Lynnfield Street), from Great Woods Road to Wyoma Square	Quantified	15,422	Quantified Decrease in Emissions from Complete Streets Project
604952	Lynn- Saugus- Bridge Replacement, L-18-016=S-05-008, Route 107 over the Saugus River (AKA - Belden G. Bly Bridge)	Qualitative		Qualitative Decrease in Emissions
607477	Lynnfield- Peabody- Resurfacing and Related Work on Route 1	Qualitative		No assumed impact/negligible impact on emissions
604810	Marlborough- Reconstruction of Route 85 (Maple Street)	Quantified	589,680	Quantified Decrease in Emissions from Complete Streets Project
608467	Marlborough- Sudbury- Resurfacing and Related Work on Route 20	Qualitative		No assumed impact/negligible impact on emissions

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608217	Marlborough- Sudbury- Stormwater Improvements along Route 20	Qualitative		No assumed impact/negligible impact on emissions
604655	Marshfield- Bridge Replacement, M-07-007, Beach Street over the Cut River	Qualitative		Qualitative Decrease in Emissions
608069	Marshfield- Pembroke- Norwell- Hanover- Rockland- Hingham- Resurfacing and Related Work on Route 3	Qualitative		No assumed impact/negligible impact on emissions
608637	Maynard - Bridge Replacement, M-10-006, Florida Road over Assabet River	Qualitative		No assumed impact/negligible impact on emissions
603917	Medford- Stoneham- Woburn- Reading- Highway Lighting Rehabilitation on I-93 (Phase II)	Qualitative		No assumed impact/negligible impact on emissions
608522	Middleton- Bridge Replacement- M-20-003, RT 62/Maple Street over Ipswich River	Qualitative		No assumed impact/negligible impact on emissions
607763	Milton- Intersection and Signal Improvements at 2 Locations: SR 138 (Blue Hill Avenue) at Atherton Street and Bradlee Road and SR 138 (Blue Hill Avenue) at Milton Street and Dollar Lane	Quantified		TBD
607754	Milton- Intersection and Signal Improvements at Granite Avenue and Squantum Street	Quantified		TBD
605034	Natick- Reconstruction of Route 27 (North Main Street), from North Avenue to the Wayland Town Line	Quantified	177,811	Quantified Decrease in Emissions from Complete Streets Project
606635	Needham- Newton- Reconstruction of Highland Avenue, Needham Street and Charles River Bridge, N-04-002, from Webster Street (Needham) to Route 9 (Newton)	Quantified	729,389	Quantified Decrease in Emissions from Complete Streets Project
603711	Needham- Wellesley- Rehab/Replacement of 6 Bridge on I-95/Route 128: N-04-020, N-04-021, N-04-022, N-04-026, N-04-027, N-04-037 and W-13-023 (Add-a-Lane- Contract V)	Quantified		RTP project included in the statewide model
608609	Newton - Westwood, Bridge No. N-12-0056 and W-31-006: Clean and Paint Structural Steel	Qualitative		No assumed impact/negligible impact on emissions
607915	Newton- Wellesley- Weston- Bridge Maintenance of N-12-063, N-12-054, N-12-055 and N-12-056 on I-95/Route 128	Qualitative		No assumed impact/negligible impact on emissions
608610	Newton, Bridge Number N-12-055: Clean and Paint Structural Steel	Qualitative		No assumed impact/negligible impact on emissions
608052	Norwood- Intersection and Signal Improvements at US 1 (Providence Highway) and Morse Street	Quantified		TBD
605857	Norwood- Intersection Improvements at Route 1 and University Avenue/Everett Street	Quantified	1,003,363	Quantified Decrease in Emissions from Traffic Operational Improvement
608468	Peabody- Danvers- Resurfacing and Related Work on Route 1	Qualitative		No assumed impact/negligible impact on emissions
608208	Quincy- Milton- Boston- Interstate Maintenance and Related Work on I-93	Qualitative		No assumed impact/negligible impact on emissions

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608208	Quincy- Milton- Boston- Interstate Maintenance and Related Work on I-93	Qualitative		No assumed impact/negligible impact on emissions
607133	Quincy- Superstructure Replacement, Q-01-039, Robertson Street over I-93/US 1/SR 3	Qualitative		No assumed impact/negligible impact on emissions
607481	Randolph- Quincy- Braintree- Interstate Maintenance and Related Work on I-93 (SB)	Qualitative		No assumed impact/negligible impact on emissions
608205	Reading to Lynnfield- Guide and Traffic Sign Replacement on a Section of I-95(SR 128)	Qualitative		No assumed impact/negligible impact on emissions
608219	Reading- Wakefield- Interstate Maintenance and Related Work on I-95	Qualitative		No assumed impact/negligible impact on emissions
607999	Revere- Improvements at Garfield Elementary and Middle School (SRTS)	Qualitative		Qualitative Decrease in Emissions
608521	Salem - Structural Steel Repairs, Bridge No. S-01-018	Qualitative		No assumed impact/negligible impact on emissions
608352	Salem- Canal Street Rail Trail Construction (Phase 2)	Quantified	9,979	from Bicycle and Pedestrian Infrastructure
608008	Saugus - Resurfacing and Related Work on Route 1	Qualitative		No assumed impact/negligible impact on emissions
608079	Sharon- Bridge Replacement, S-09-003 (40N), Maskwonicut Street over Amtrak/MBTA	Qualitative		Qualitative Decrease in Emissions
604989	Southborough- Reconstruction of Main Street (Route 30), from Sears Road to Park Street	Quantified	213,192	Quantified Decrease in Emissions from Complete Streets Project
607488	Southborough- Resurfacing and Related Work on Route 9, from the Framingham Town Line to White Bagley Road	Qualitative		No assumed impact/negligible impact on emissions
608476	Southborough- Resurfacing and Related Work on Route 30	Qualitative		No assumed impact/negligible impact on emissions
608613	Stoneham - Bridge Replacement, S-27-008, Marble Street over I-93	Qualitative		No assumed impact/negligible impact on emissions
602165	Stoneham- Signal and Intersection Improvements at Route 28/North Street	Quantified	139,709	Quantified Decrease in Emissions from Traffic Operational Improvement
605342	Stow- Bridge Replacement, S-29-001, (ST 62) Gleasondale Road over the Assabet River	Qualitative		No assumed impact/negligible impact on emissions
608255	Stow- Bridge Replacement, S-29-011, Box Mill Road over Elizabeth Brook	Qualitative		No assumed impact/negligible impact on emissions
607761	Swampscott- Intersection and Signal Improvements at SR 1A (Paradise Road) at Swampscott Mall	Quantified		TBD
607507	Wakefield- Bridge Deck Replacement, W-01-021 (2MF), Hopkins Street over I-95/St 128	Qualitative		Qualitative Decrease in Emissions

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MassDOT Project ID	MassDOT Project Description	GHG Analysis Type	GHG CO ₂ Impact (kg/yr)	GHG Impact Description
607329	Wakefield- Lynnfield- Rail Trail Extension, from the Galvin Middle School to Lynnfield/Peabody Town Line	Quantified		TBD
602261	Walpole- Reconstruction on Route 1A (Main Street), from the Norwood Town Line to Route 27, includes W-03-024 over the Neponset River	Quantified	215,006	Quantified Decrease in Emissions from Complete Streets Project
607533	Waltham- Bridge Replacement, W-04-006, Woerd Avenue over Charles River	Qualitative		No assumed impact/negligible impact on emissions
608004	Watertown- Improvements at Hosmer Elementary School (SRTS)	Qualitative		Qualitative Decrease in Emissions
601630	Weymouth- Abington- Reconstruction and Widening on Route 18 (Main Street) from Highland Place to Route 139 (4.0 Miles) includes Replacing W-32-013, Route 18 over the Old Colony Railroad (MBTA)	Quantified		RTP project included in the statewide model
608003	Weymouth- Improvements at Pingree Elementary School (SRTS)	Qualitative		Qualitative Decrease in Emissions
608483	Weymouth- Resurfacing and Related Work on Route 3A	Qualitative		No assumed impact/negligible impact on emissions
608214	Winchester- Stormwater Improvements along Route 3	Qualitative		No assumed impact/negligible impact on emissions
608097	Woburn- Bridge Replacement and Related Work, W-43-028, Washington Street over I-95	Qualitative		No assumed impact/negligible impact on emissions
604996	Woburn- Bridge Replacement, W-43-017, New Boston Street over MBTA	Quantified		RTP project included in the statewide model
604935	Woburn- Reconstruction of Montvale Avenue, from I-93 Interchange to Central Street (Approx. 1,850 FT)	Quantified	98,885	Quantified Decrease in Emissions from Complete Streets Project

TABLE C-2: Greenhouse Gas Regional Transit Project Tracking

Regional Transit Authority	Project Description	GHG Analysis Type	GHG CO ₂ Impact (kg/yr)	GHG Impact Description
CATA	Acquire - Miscellaneous Support Equipment	Qualitative		No assumed impact/negligible impact on emissions
CATA	Acquire - Shop Equipment/Software Maintenance	Qualitative		No assumed impact/negligible impact on emissions
CATA	Buy Replacement 30-Foot Buses (3)	Quantified	1,278	Quantified Decrease in Emissions from Bus Replacement
CATA	Buy Replacement Trolley Buses (2)	Quantified	530	Quantified Decrease in Emissions from Bus Replacement
CATA	Construct - Bus Shelter-CATA HUB/COA	Qualitative		No assumed impact/negligible impact on emissions
CATA	Preventative Maintenance	Qualitative		No assumed impact/negligible impact on emissions
CATA	Rehab- Shelters Railroad, Park and Ride, Emerson Ave	Qualitative		No assumed impact/negligible impact on emissions
CATA	Rehab/Renovate - Bus Passenger Shelters	Qualitative		No assumed impact/negligible impact on emissions
MBTA	Bridge and Tunnel Program	Qualitative		No assumed impact/negligible impact on emissions
MBTA	Green Line Extension Project - Extension to College Avenue with the Union Square Spur	Quantified		RTP project included in the statewide model
MBTA	Green Line Overhaul	Qualitative		No assumed impact/negligible impact on emissions
MBTA	Green Line Reliability Improvements	Qualitative		No assumed impact/negligible impact on emissions
MBTA	Stations and Facilities	Qualitative		No assumed impact/negligible impact on emissions
MBTA	Bus Overhaul	Qualitative		No assumed impact/negligible impact on emissions
MBTA	Elevator Program	Qualitative		No assumed impact/negligible impact on emissions
MBTA	Revenue Vehicle Program	Qualitative		No assumed impact/negligible impact on emissions
MBTA	Emission Control Diesel Bus Selective System Reliability Program	Qualitative		No assumed impact/negligible impact on emissions

TABLE C-2: Greenhouse Gas Regional Transit Project Tracking

Regional Transit Authority	Project Description	GHG Analysis Type	GHG CO₂ Impact (kg/yr)	GHG Impact Description
MBTA	Bus Program	Qualitative		No assumed impact/negligible impact on emissions
MBTA	Positive Train Control	Qualitative		No assumed impact/negligible impact on emissions
MBTA	South Shore Parking Garage	Qualitative		No assumed impact/negligible impact on emissions
MBTA	Bus Procurement (60 Hybrid Buses)	Quantified	2,398,879	Quantified Decrease in Emissions from Bus Replacement
MBTA	Systems Upgrade	Qualitative		No assumed impact/negligible impact on emissions
MWRTA	Acquisition of Bus Support Equipment/Facilities	Qualitative		No assumed impact/negligible impact on emissions
MWRTA	Construct Miscellaneous Electric/Power Equipment	Qualitative		No assumed impact/negligible impact on emissions
MWRTA	Construction of Bus Stations/Terminals	Qualitative		No assumed impact/negligible impact on emissions
MWRTA	Mobility Management	Qualitative		No assumed impact/negligible impact on emissions
MWRTA	Non-Fixed Route ADA Paratransit Services	Quantified	6,653	Quantified Decrease in Emissions from Bus Replacement
MWRTA	Terminal, Intermodal (Transit)	Qualitative		No assumed impact/negligible impact on emissions

TABLE C-3: Greenhouse Gas Regional Highway "Completed" Project Tracking

MassDOT Project ID	MassDOT Project Description	GHG Analysis Type	GHG CO ₂ Impact (kg/yr)	GHG Impact Description	FFY of Contract Award
606284	Boston- Improvements to Commonwealth Avenue, from Amory Street to Alcorn Street	Quantified	162,389	Quantified Decrease in Emissions from Complete Streets Project	2015
605657	Medway- Reconstruction on Route 109, from Holliston Street to 100 Feet West of Highland Street	Quantified	707,616	Quantified Decrease in Emissions from Complete Streets Project	2015
605146	Salem- Reconstruction on Canal Street, from Washington Street and Mill Street to Loring Avenue and Jefferson Avenue	Quantified	66,226	Quantified Decrease in Emissions from Complete Streets Project	2015
604531	Acton- Assabet River Rail Trail	Quantified	61,690	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure	2015
602000	Weston- Intersection and Signal Improvements at Route 30 (South Ave) and Wellesley Street	Quantified	214,099	Quantified Decrease in Emissions from Traffic Operational Improvement	2015
607209	Somerville- Cambridge- Reconstruction of Beacon Street, from Oxford Street to Cambridge City Line	Quantified	684,057	Quantified Decrease in Emissions from Complete Streets Project	2015
601579	Wayland- Signal and Intersection Improvements at Route 27 (Main Street) and Route 30 (Commonwealth Road)	Quantified	205,105	Quantified Decrease in Emissions from Traffic Operational Improvement	2016

TABLE C-4 GREENHOUSE GAS REGIONAL TRANSIT "COMPLETED" PROJECT TRACKING

Regional Transit Authority	Project Description	GHG Analysis Type	GHG CO ₂ Impact (kg/yr)	GHG Impact Description	FFY of Contract Award
CATA	Bus Replacement - 30-Foot Bus (2)	Quantified	786	Quantified Decrease in Emissions from Bus Replacement	2015
CATA	Bus Replacement - Less than 30-Foot Bus (3)	Quantified	18,666	Quantified Decrease in Emissions from Bus Replacement	2015
MBTA	Revenue Vehicle Program - Bus Replacement (60)	Quantified	2,398,879	Quantified Decrease in Emissions from Bus Replacement	2015
MWRTA	Van Replacement (2)	Quantified	4,457	Quantified Decrease in Emissions from Bus Replacement	2015
MWRTA	Mini-Van Replacement (8)	Quantified	5,211	Quantified Decrease in Emissions from Bus Replacement	2015
MWRTA	Bus Replacement - Less than 30-Foot Bus (2)	Quantified	8,640	Quantified Decrease in Emissions from Bus Replacement	2015
CATA	Bus Replacement - 30-Foot Bus (4)	Quantified	1,660	Quantified Decrease in Emissions from Bus Replacement	2016
CATA	Bus Replacement - Less than 30-Foot Bus (3)	Quantified	10,151	Quantified Decrease in Emissions from Bus Replacement	2016
MBTA	Revenue Vehicle Program - Bus Replacement (369)	Quantified	1,264,520	Quantified Decrease in Emissions from Bus Replacement	2016
MWRTA	Bus Replacement - Less than 30-Foot Bus (5)	Quantified	20,107	Quantified Decrease in Emissions from Bus Replacement	2016