

APPENDIX G

Greenhouse Gases Emissions Tables

Construction Emissions Files

- Balboa Double Track Construction – Annual Emissions CalEEMod Output File
- Canyon Siding Extension Construction – Annual Emissions CalEEMod Output File
- Lancaster Terminal Improvements Construction – Annual Emissions CalEEMod Output File

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

Metro AVL Construction - Canyon Site
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	371.52	1000sqft	8.53	371,520.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

Project Characteristics - Construction Only

Land Use - Construction Only

Construction Phase - Preliminary Schedule: 18 months continuous construction.

Off-road Equipment - Project Inventory sourced from Constructability Review.

Off-road Equipment - Project Inventory sourced from Constructability Review.

Off-road Equipment - Project Inventory sourced from Constructability Review.

Off-road Equipment - Project Inventory sourced from Constructability Review.

Off-road Equipment - Project Inventory sourced from Constructability Review.

Trips and VMT - Site Prep & Grading vendor trips = water trucks.

Grading - Project Info

Energy Use -

Construction Off-road Equipment Mitigation - LACMTA Green Construction Policy: Tier 4 Final Equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	20.00	130.00
tblConstructionPhase	NumDays	230.00	130.00
tblConstructionPhase	NumDays	20.00	45.00
tblGrading	MaterialExported	0.00	61,678.00
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	12,932.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tbloffRoadEquipment	PhaseName		Grading
tbloffRoadEquipment	PhaseName		Building Construction
tbloffRoadEquipment	PhaseName		Building Construction
tbloffRoadEquipment	PhaseName		Paving
tbloffRoadEquipment	PhaseName		Grading
tbloffRoadEquipment	PhaseName		Grading
tbloffRoadEquipment	PhaseName		Site Preparation
tbloffRoadEquipment	PhaseName		Building Construction
tbloffRoadEquipment	PhaseName		Site Preparation
tbloffRoadEquipment	PhaseName		Building Construction

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Paving
tblTripsAndVMT	HaulingTripNumber	99.00	2,600.00
tblTripsAndVMT	HaulingTripNumber	9,326.00	13,000.00
tblTripsAndVMT	VendorTripLength	6.90	3.00
tblTripsAndVMT	VendorTripLength	6.90	3.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	61.00	80.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripNumber	25.00	60.00
tblTripsAndVMT	WorkerTripNumber	30.00	120.00
tblTripsAndVMT	WorkerTripNumber	156.00	120.00
tblTripsAndVMT	WorkerTripNumber	30.00	60.00
tblTripsAndVMT	WorkerTripNumber	25.00	60.00

2.0 Emissions Summary

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.1082	1.2441	1.2810	3.9400e-003	0.5097	0.0349	0.5447	0.1895	0.0322	0.2218	0.0000	365.5773	365.5773	0.0651	0.0000	367.2035
2027	0.3556	3.9562	4.0209	0.0132	0.7563	0.1062	0.8625	0.2807	0.0982	0.3789	0.0000	1,217.0206	1,217.0206	0.2105	0.0000	1,222.2821
2028	0.0331	0.3417	0.5255	1.0500e-003	0.0205	0.0115	0.0319	5.5700e-003	0.0106	0.0162	0.0000	93.7410	93.7410	0.0212	0.0000	94.2718
Maximum	0.3556	3.9562	4.0209	0.0132	0.7563	0.1062	0.8625	0.2807	0.0982	0.3789	0.0000	1,217.0206	1,217.0206	0.2105	0.0000	1,222.2821

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.0478	0.5554	1.4850	3.9400e-003	0.2898	4.0400e-003	0.2938	0.0975	3.9900e-003	0.1015	0.0000	365.5771	365.5771	0.0651	0.0000	367.2033
2027	0.1661	1.7189	4.7563	0.0132	0.4868	0.0134	0.5002	0.1614	0.0132	0.1746	0.0000	1,217.0199	1,217.0199	0.2105	0.0000	1,222.2814
2028	0.0155	0.1482	0.5773	1.0500e-003	0.0205	1.3000e-003	0.0218	5.5700e-003	1.2900e-003	6.8600e-003	0.0000	93.7409	93.7409	0.0212	0.0000	94.2717
Maximum	0.1661	1.7189	4.7563	0.0132	0.4868	0.0134	0.5002	0.1614	0.0132	0.1746	0.0000	1,217.0199	1,217.0199	0.2105	0.0000	1,222.2814

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	53.84	56.29	-17.01	0.00	38.05	87.72	43.31	44.41	86.88	54.11	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-7-2026	12-6-2026	0.8603	0.3756
2	12-7-2026	3-6-2027	1.5717	0.7140
3	3-7-2027	6-6-2027	1.5645	0.7068
4	6-7-2027	9-6-2027	0.7122	0.2851
5	9-7-2027	12-6-2027	0.6887	0.2766
6	12-7-2027	3-6-2028	0.5180	0.2229
		Highest	1.5717	0.7140

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0296	4.0000e-005	4.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2200e-003	9.2200e-003	2.0000e-005	0.0000	9.8200e-003
Energy	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
Mobile	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
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0296	4.0000e-005	4.7300e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005	0.0000	9.2200e-003	9.2200e-003	2.0000e-005	0.0000	9.8200e-003

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0296	4.0000e-005	4.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2200e-003	9.2200e-003	2.0000e-005	0.0000	9.8200e-003
Energy	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
Mobile	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
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0296	4.0000e-005	4.7300e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005	0.0000	9.2200e-003	9.2200e-003	2.0000e-005	0.0000	9.8200e-003

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/7/2026	12/4/2026	5	65	1) Clearing/grubbing/tree removal & ROW clearing. (~3 months)
2	Grading	Grading	12/7/2026	6/4/2027	5	130	2) Excavation/grading/shoring/piling (~6 months)
3	Building Construction	Building Construction	6/7/2027	12/3/2027	5	130	3) Retaining walls, platform construction, rail bridge, pedestrian access tunnel (~6 months)
4	Paving	Paving	12/6/2027	2/4/2028	5	45	4) Track installation and ancillary features (~2 months)
5	Trenching	Trenching	2/7/2028	3/3/2028	5	20	5) Utilities (~1 month)

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 195

Acres of Paving: 8.53

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	2	4.00	158	0.38
Site Preparation	Other Material Handling Equipment	2	8.00	168	0.40
Site Preparation	Rough Terrain Forklifts	2	8.00	100	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Bore/Drill Rigs	1	4.00	221	0.50
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Crushing/Proc. Equipment	1	4.00	85	0.78
Grading	Excavators	2	8.00	158	0.38

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

Grading	Graders	1	8.00	187	0.41
Grading	Rough Terrain Forklifts	2	8.00	100	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Bore/Drill Rigs	1	4.00	221	0.50
Building Construction	Cement and Mortar Mixers	2	8.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Excavators	2	6.00	158	0.38
Building Construction	Other Material Handling Equipment	1	8.00	168	0.40
Building Construction	Rough Terrain Forklifts	2	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Rough Terrain Forklifts	2	8.00	100	0.40
Paving	Skid Steer Loaders	2	8.00	65	0.37
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Other Material Handling Equipment	2	8.00	168	0.40
Trenching	Rollers	2	4.00	80	0.38
Trenching	Rough Terrain Forklifts	2	8.00	100	0.40
Trenching	Skid Steer Loaders	2	8.00	65	0.37
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	10	60.00	40.00	2,600.00	14.70	3.00	20.00	LD_Mix	MHDT	HHDT
Grading	12	120.00	40.00	13,000.00	14.70	3.00	20.00	LD_Mix	MHDT	HHDT
Building Construction	12	120.00	80.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	12	60.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	10	60.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1958	0.0000	0.1958	0.1076	0.0000	0.1076	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0579	0.5588	0.7857	1.3200e-003		0.0236	0.0236		0.0217	0.0217	0.0000	115.5362	115.5362	0.0374	0.0000	116.4704
Total	0.0579	0.5588	0.7857	1.3200e-003	0.1958	0.0236	0.2194	0.1076	0.0217	0.1293	0.0000	115.5362	115.5362	0.0374	0.0000	116.4704

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.2 Site Preparation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7700e-003	0.2112	0.0770	9.3000e-004	0.0224	3.7000e-004	0.0227	6.1400e-003	3.6000e-004	6.5000e-003	0.0000	92.4060	92.4060	6.2600e-003	0.0000	92.5624
Vendor	1.4300e-003	0.0371	0.0159	1.0000e-004	3.7800e-003	3.0000e-005	3.8100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	9.6380	9.6380	1.6000e-004	0.0000	9.6421
Worker	6.3700e-003	4.1000e-003	0.0505	1.8000e-004	0.0214	1.5000e-004	0.0215	5.6800e-003	1.4000e-004	5.8200e-003	0.0000	16.1169	16.1169	3.5000e-004	0.0000	16.1257
Total	0.0146	0.2524	0.1433	1.2100e-003	0.0475	5.5000e-004	0.0481	0.0130	5.3000e-004	0.0135	0.0000	118.1609	118.1609	6.7700e-003	0.0000	118.3302

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0764	0.0000	0.0764	0.0420	0.0000	0.0420	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1041	0.9099	1.3200e-003		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	115.5361	115.5361	0.0374	0.0000	116.4703
Total	0.0170	0.1041	0.9099	1.3200e-003	0.0764	2.1500e-003	0.0785	0.0420	2.1500e-003	0.0441	0.0000	115.5361	115.5361	0.0374	0.0000	116.4703

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.2 Site Preparation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7700e-003	0.2112	0.0770	9.3000e-004	0.0224	3.7000e-004	0.0227	6.1400e-003	3.6000e-004	6.5000e-003	0.0000	92.4060	92.4060	6.2600e-003	0.0000	92.5624
Vendor	1.4300e-003	0.0371	0.0159	1.0000e-004	3.7800e-003	3.0000e-005	3.8100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	9.6380	9.6380	1.6000e-004	0.0000	9.6421
Worker	6.3700e-003	4.1000e-003	0.0505	1.8000e-004	0.0214	1.5000e-004	0.0215	5.6800e-003	1.4000e-004	5.8200e-003	0.0000	16.1169	16.1169	3.5000e-004	0.0000	16.1257
Total	0.0146	0.2524	0.1433	1.2100e-003	0.0475	5.5000e-004	0.0481	0.0130	5.3000e-004	0.0135	0.0000	118.1609	118.1609	6.7700e-003	0.0000	118.3302

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1648	0.0000	0.1648	0.0433	0.0000	0.0433	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.2654	0.2615	5.9000e-004		0.0104	0.0104		9.6300e-003	9.6300e-003	0.0000	52.1133	52.1133	0.0161	0.0000	52.5154
Total	0.0267	0.2654	0.2615	5.9000e-004	0.1648	0.0104	0.1753	0.0433	9.6300e-003	0.0529	0.0000	52.1133	52.1133	0.0161	0.0000	52.5154

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.3 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9500e-003	0.1544	0.0563	6.8000e-004	0.0881	2.7000e-004	0.0883	0.0221	2.6000e-004	0.0224	0.0000	67.5275	67.5275	4.5700e-003	0.0000	67.6417
Vendor	4.2000e-004	0.0108	4.6300e-003	3.0000e-005	1.1100e-003	1.0000e-005	1.1100e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	2.8173	2.8173	5.0000e-005	0.0000	2.8185
Worker	3.7200e-003	2.4000e-003	0.0295	1.0000e-004	0.0125	9.0000e-005	0.0126	3.3200e-003	8.0000e-005	3.4000e-003	0.0000	9.4222	9.4222	2.1000e-004	0.0000	9.4273
Total	9.0900e-003	0.1676	0.0904	8.1000e-004	0.1017	3.7000e-004	0.1020	0.0257	3.5000e-004	0.0261	0.0000	79.7669	79.7669	4.8300e-003	0.0000	79.8875

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0643	0.0000	0.0643	0.0169	0.0000	0.0169	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2200e-003	0.0313	0.3413	5.9000e-004		9.6000e-004	9.6000e-004		9.6000e-004	9.6000e-004	0.0000	52.1132	52.1132	0.0161	0.0000	52.5153
Total	7.2200e-003	0.0313	0.3413	5.9000e-004	0.0643	9.6000e-004	0.0652	0.0169	9.6000e-004	0.0178	0.0000	52.1132	52.1132	0.0161	0.0000	52.5153

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.3 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9500e-003	0.1544	0.0563	6.8000e-004	0.0881	2.7000e-004	0.0883	0.0221	2.6000e-004	0.0224	0.0000	67.5275	67.5275	4.5700e-003	0.0000	67.6417
Vendor	4.2000e-004	0.0108	4.6300e-003	3.0000e-005	1.1100e-003	1.0000e-005	1.1100e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	2.8173	2.8173	5.0000e-005	0.0000	2.8185
Worker	3.7200e-003	2.4000e-003	0.0295	1.0000e-004	0.0125	9.0000e-005	0.0126	3.3200e-003	8.0000e-005	3.4000e-003	0.0000	9.4222	9.4222	2.1000e-004	0.0000	9.4273
Total	9.0900e-003	0.1676	0.0904	8.1000e-004	0.1017	3.7000e-004	0.1020	0.0257	3.5000e-004	0.0261	0.0000	79.7669	79.7669	4.8300e-003	0.0000	79.8875

3.3 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4418	0.0000	0.4418	0.1955	0.0000	0.1955	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1557	1.5503	1.5277	3.4700e-003		0.0609	0.0609		0.0562	0.0562	0.0000	304.4513	304.4513	0.0940	0.0000	306.8005
Total	0.1557	1.5503	1.5277	3.4700e-003	0.4418	0.0609	0.5027	0.1955	0.0562	0.2518	0.0000	304.4513	304.4513	0.0940	0.0000	306.8005

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.3 Grading - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0287	0.8889	0.3305	3.9600e-003	0.1077	1.5700e-003	0.1093	0.0292	1.5000e-003	0.0307	0.0000	392.6129	392.6129	0.0266	0.0000	393.2774
Vendor	2.3300e-003	0.0635	0.0255	1.7000e-004	6.4600e-003	5.0000e-005	6.5100e-003	1.9500e-003	4.0000e-005	1.9900e-003	0.0000	16.4099	16.4099	2.7000e-004	0.0000	16.4165
Worker	0.0208	0.0129	0.1615	5.9000e-004	0.0730	5.0000e-004	0.0735	0.0194	4.6000e-004	0.0198	0.0000	53.2909	53.2909	1.1100e-003	0.0000	53.3185
Total	0.0518	0.9652	0.5174	4.7200e-003	0.1871	2.1200e-003	0.1893	0.0506	2.0000e-003	0.0526	0.0000	462.3136	462.3136	0.0280	0.0000	463.0124

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1723	0.0000	0.1723	0.0763	0.0000	0.0763	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0422	0.1827	1.9941	3.4700e-003		5.6200e-003	5.6200e-003		5.6200e-003	5.6200e-003	0.0000	304.4510	304.4510	0.0940	0.0000	306.8002
Total	0.0422	0.1827	1.9941	3.4700e-003	0.1723	5.6200e-003	0.1779	0.0763	5.6200e-003	0.0819	0.0000	304.4510	304.4510	0.0940	0.0000	306.8002

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.3 Grading - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0287	0.8889	0.3305	3.9600e-003	0.1077	1.5700e-003	0.1093	0.0292	1.5000e-003	0.0307	0.0000	392.6129	392.6129	0.0266	0.0000	393.2774
Vendor	2.3300e-003	0.0635	0.0255	1.7000e-004	6.4600e-003	5.0000e-005	6.5100e-003	1.9500e-003	4.0000e-005	1.9900e-003	0.0000	16.4099	16.4099	2.7000e-004	0.0000	16.4165
Worker	0.0208	0.0129	0.1615	5.9000e-004	0.0730	5.0000e-004	0.0735	0.0194	4.6000e-004	0.0198	0.0000	53.2909	53.2909	1.1100e-003	0.0000	53.3185
Total	0.0518	0.9652	0.5174	4.7200e-003	0.1871	2.1200e-003	0.1893	0.0506	2.0000e-003	0.0526	0.0000	462.3136	462.3136	0.0280	0.0000	463.0124

3.4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0983	0.9101	1.4444	2.5900e-003		0.0368	0.0368		0.0340	0.0340	0.0000	225.2036	225.2036	0.0715	0.0000	226.9918
Total	0.0983	0.9101	1.4444	2.5900e-003		0.0368	0.0368		0.0340	0.0340	0.0000	225.2036	225.2036	0.0715	0.0000	226.9918

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	0.0103	0.3571	0.1074	1.2400e-003	0.0328	4.0000e-004	0.0332	9.4600e-003	3.8000e-004	9.8400e-003	0.0000	120.7005	120.7005	6.3200e-003	0.0000	120.8586
Worker	0.0243	0.0151	0.1891	6.9000e-004	0.0855	5.8000e-004	0.0861	0.0227	5.4000e-004	0.0232	0.0000	62.4127	62.4127	1.3000e-003	0.0000	62.4451
Total	0.0346	0.3722	0.2966	1.9300e-003	0.1182	9.8000e-004	0.1192	0.0322	9.2000e-004	0.0331	0.0000	183.1132	183.1132	7.6200e-003	0.0000	183.3037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0306	0.1327	1.6932	2.5900e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	225.2033	225.2033	0.0715	0.0000	226.9915
Total	0.0306	0.1327	1.6932	2.5900e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	225.2033	225.2033	0.0715	0.0000	226.9915

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	0.0103	0.3571	0.1074	1.2400e-003	0.0328	4.0000e-004	0.0332	9.4600e-003	3.8000e-004	9.8400e-003	0.0000	120.7005	120.7005	6.3200e-003	0.0000	120.8586
Worker	0.0243	0.0151	0.1891	6.9000e-004	0.0855	5.8000e-004	0.0861	0.0227	5.4000e-004	0.0232	0.0000	62.4127	62.4127	1.3000e-003	0.0000	62.4451
Total	0.0346	0.3722	0.2966	1.9300e-003	0.1182	9.8000e-004	0.1192	0.0322	9.2000e-004	0.0331	0.0000	183.1132	183.1132	7.6200e-003	0.0000	183.3037

3.5 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1298	0.2119	3.2000e-004		5.2700e-003	5.2700e-003		4.8700e-003	4.8700e-003	0.0000	27.8532	27.8532	8.8100e-003	0.0000	28.0734
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0126	0.1298	0.2119	3.2000e-004		5.2700e-003	5.2700e-003		4.8700e-003	4.8700e-003	0.0000	27.8532	27.8532	8.8100e-003	0.0000	28.0734

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.5 Paving - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	7.9000e-004	0.0275	8.2600e-003	1.0000e-004	2.5200e-003	3.0000e-005	2.5500e-003	7.3000e-004	3.0000e-005	7.6000e-004	0.0000	9.2847	9.2847	4.9000e-004	0.0000	9.2968
Worker	1.8700e-003	1.1600e-003	0.0146	5.0000e-005	6.5700e-003	4.0000e-005	6.6200e-003	1.7500e-003	4.0000e-005	1.7900e-003	0.0000	4.8010	4.8010	1.0000e-004	0.0000	4.8035
Total	2.6600e-003	0.0286	0.0228	1.5000e-004	9.0900e-003	7.0000e-005	9.1700e-003	2.4800e-003	7.0000e-005	2.5500e-003	0.0000	14.0856	14.0856	5.9000e-004	0.0000	14.1003

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2700e-003	0.0374	0.2321	3.2000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	27.8532	27.8532	8.8100e-003	0.0000	28.0733
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.2700e-003	0.0374	0.2321	3.2000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	27.8532	27.8532	8.8100e-003	0.0000	28.0733

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.5 Paving - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	7.9000e-004	0.0275	8.2600e-003	1.0000e-004	2.5200e-003	3.0000e-005	2.5500e-003	7.3000e-004	3.0000e-005	7.6000e-004	0.0000	9.2847	9.2847	4.9000e-004	0.0000	9.2968
Worker	1.8700e-003	1.1600e-003	0.0146	5.0000e-005	6.5700e-003	4.0000e-005	6.6200e-003	1.7500e-003	4.0000e-005	1.7900e-003	0.0000	4.8010	4.8010	1.0000e-004	0.0000	4.8035
Total	2.6600e-003	0.0286	0.0228	1.5000e-004	9.0900e-003	7.0000e-005	9.1700e-003	2.4800e-003	7.0000e-005	2.5500e-003	0.0000	14.0856	14.0856	5.9000e-004	0.0000	14.1003

3.5 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0158	0.1622	0.2649	4.0000e-004		6.5900e-003	6.5900e-003		6.0900e-003	6.0900e-003	0.0000	34.8165	34.8165	0.0110	0.0000	35.0917
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0158	0.1622	0.2649	4.0000e-004		6.5900e-003	6.5900e-003		6.0900e-003	6.0900e-003	0.0000	34.8165	34.8165	0.0110	0.0000	35.0917

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.5 Paving - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	9.7000e-004	0.0341	0.0102	1.2000e-004	3.1500e-003	4.0000e-005	3.1900e-003	9.1000e-004	4.0000e-005	9.5000e-004	0.0000	11.5585	11.5585	6.0000e-004	0.0000	11.5735
Worker	2.2200e-003	1.3500e-003	0.0171	6.0000e-005	8.2200e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003	0.0000	5.8262	5.8262	1.2000e-004	0.0000	5.8291
Total	3.1900e-003	0.0354	0.0273	1.8000e-004	0.0114	9.0000e-005	0.0115	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	17.3847	17.3847	7.2000e-004	0.0000	17.4025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3400e-003	0.0467	0.2902	4.0000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	34.8164	34.8164	0.0110	0.0000	35.0917
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.3400e-003	0.0467	0.2902	4.0000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	34.8164	34.8164	0.0110	0.0000	35.0917

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.5 Paving - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	9.7000e-004	0.0341	0.0102	1.2000e-004	3.1500e-003	4.0000e-005	3.1900e-003	9.1000e-004	4.0000e-005	9.5000e-004	0.0000	11.5585	11.5585	6.0000e-004	0.0000	11.5735
Worker	2.2200e-003	1.3500e-003	0.0171	6.0000e-005	8.2200e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003	0.0000	5.8262	5.8262	1.2000e-004	0.0000	5.8291
Total	3.1900e-003	0.0354	0.0273	1.8000e-004	0.0114	9.0000e-005	0.0115	3.0900e-003	9.0000e-005	3.1800e-003	0.0000	17.3847	17.3847	7.2000e-004	0.0000	17.4025

3.6 Trenching - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0116	0.1158	0.2115	3.1000e-004		4.7300e-003	4.7300e-003		4.3500e-003	4.3500e-003	0.0000	27.6321	27.6321	8.9400e-003	0.0000	27.8555
Total	0.0116	0.1158	0.2115	3.1000e-004		4.7300e-003	4.7300e-003		4.3500e-003	4.3500e-003	0.0000	27.6321	27.6321	8.9400e-003	0.0000	27.8555

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.6 Trenching - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	7.8000e-004	0.0273	8.1500e-003	9.0000e-005	2.5200e-003	3.0000e-005	2.5500e-003	7.3000e-004	3.0000e-005	7.6000e-004	0.0000	9.2468	9.2468	4.8000e-004	0.0000	9.2588
Worker	1.7800e-003	1.0800e-003	0.0137	5.0000e-005	6.5700e-003	4.0000e-005	6.6200e-003	1.7500e-003	4.0000e-005	1.7800e-003	0.0000	4.6610	4.6610	9.0000e-005	0.0000	4.6633
Total	2.5600e-003	0.0283	0.0219	1.4000e-004	9.0900e-003	7.0000e-005	9.1700e-003	2.4800e-003	7.0000e-005	2.5400e-003	0.0000	13.9078	13.9078	5.7000e-004	0.0000	13.9220

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.3700e-003	0.0378	0.2380	3.1000e-004		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	27.6320	27.6320	8.9400e-003	0.0000	27.8554
Total	4.3700e-003	0.0378	0.2380	3.1000e-004		5.1000e-004	5.1000e-004		5.1000e-004	5.1000e-004	0.0000	27.6320	27.6320	8.9400e-003	0.0000	27.8554

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

3.6 Trenching - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	7.8000e-004	0.0273	8.1500e-003	9.0000e-005	2.5200e-003	3.0000e-005	2.5500e-003	7.3000e-004	3.0000e-005	7.6000e-004	0.0000	9.2468	9.2468	4.8000e-004	0.0000	9.2588
Worker	1.7800e-003	1.0800e-003	0.0137	5.0000e-005	6.5700e-003	4.0000e-005	6.6200e-003	1.7500e-003	4.0000e-005	1.7800e-003	0.0000	4.6610	4.6610	9.0000e-005	0.0000	4.6633
Total	2.5600e-003	0.0283	0.0219	1.4000e-004	9.0900e-003	7.0000e-005	9.1700e-003	2.4800e-003	7.0000e-005	2.5400e-003	0.0000	13.9078	13.9078	5.7000e-004	0.0000	13.9220

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	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
Unmitigated	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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Non-Asphalt Surfaces	0	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
Total		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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0296	4.0000e-005	4.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2200e-003	9.2200e-003	2.0000e-005	0.0000	9.8200e-003
Unmitigated	0.0296	4.0000e-005	4.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2200e-003	9.2200e-003	2.0000e-005	0.0000	9.8200e-003

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0240					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.4000e-004	4.0000e-005	4.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2200e-003	9.2200e-003	2.0000e-005	0.0000	9.8200e-003
Total	0.0296	4.0000e-005	4.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2200e-003	9.2200e-003	2.0000e-005	0.0000	9.8200e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0240					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.4000e-004	4.0000e-005	4.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2200e-003	9.2200e-003	2.0000e-005	0.0000	9.8200e-003
Total	0.0296	4.0000e-005	4.7300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.2200e-003	9.2200e-003	2.0000e-005	0.0000	9.8200e-003

7.0 Water Detail

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

Metro AVL Construction - Canyon Site - Los Angeles-South Coast County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

Metrolink AVL Construction - Balboa Site
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	496.00	1000sqft	11.39	496,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Total Area of Disturbance = 6,200' x 80'

Construction Phase - Demo = Track removal

Site Prep = clearing/grubbing/trees removal

Grading = excavation & fill

Construction = retaining walls & ancillary structures

Trenching = Utility works

Paving = track laying and access features

Off-road Equipment - Project Info

Off-road Equipment - Project Info

Off-road Equipment - Project Info

Off-road Equipment - Project Info

Off-road Equipment - Project Info

Off-road Equipment - Project Info

Trips and VMT - Site Prep & Grading vendor trips = water trucks

Grading: avg 50 loads/day, max 80

Construction: approx. 40 concrete trucks/day

On-road Fugitive Dust -

Demolition - Assume 10 truckloads per day of 10 tons each of materials exported.

Grading -

Construction Off-road Equipment Mitigation - LACMTA Green Construction Policy: Tier 4 Equipment

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	40
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	30.00	130.00
tblConstructionPhase	NumDays	300.00	90.00
tblConstructionPhase	NumDays	20.00	65.00

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Trenching
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Trenching
tblTripsAndVMT	HaulingTripNumber	99.00	2,600.00
tblTripsAndVMT	HaulingTripNumber	8,925.00	13,000.00
tblTripsAndVMT	VendorTripLength	6.90	3.00
tblTripsAndVMT	VendorTripLength	6.90	3.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	81.00	80.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	MHDT
tblTripsAndVMT	WorkerTripNumber	25.00	60.00
tblTripsAndVMT	WorkerTripNumber	30.00	120.00
tblTripsAndVMT	WorkerTripNumber	208.00	120.00
tblTripsAndVMT	WorkerTripNumber	30.00	60.00
tblTripsAndVMT	WorkerTripNumber	25.00	60.00

2.0 Emissions Summary

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-5-2024	5-4-2024	0.9242	0.3764
2	5-5-2024	8-4-2024	1.7322	0.7394
3	8-5-2024	11-4-2024	1.7050	0.7290
4	11-5-2024	2-4-2025	0.7507	0.2951
5	2-5-2025	5-4-2025	0.5911	0.2370
6	5-5-2025	8-4-2025	0.5290	0.2228
7	8-5-2025	9-30-2025	0.0227	0.0099
		Highest	1.7322	0.7394

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0395	6.0000e-005	6.3100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Energy	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
Mobile	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
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0395	6.0000e-005	6.3100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0395	6.0000e-005	6.3100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Energy	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
Mobile	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
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0395	6.0000e-005	6.3100e-003	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/5/2024	5/3/2024	5	65	1) Clearing/grubbing/tree & track removal (~3 months)
2	Grading	Grading	5/6/2024	11/1/2024	5	130	2) Excavation/grading/shoring/piling (~8 months)
3	Building Construction	Building Construction	11/4/2024	3/7/2025	5	90	3) Retaining walls & ancillary structures (~3 months)
4	Paving	Paving	3/10/2025	6/6/2025	5	65	4) Track relocation & installation; access features
5	Trenching	Trenching	6/9/2025	8/8/2025	5	45	5) Utilities

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 195

Acres of Paving: 11.39

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	2	4.00	158	0.38
Site Preparation	Other Material Handling Equipment	2	8.00	168	0.40
Site Preparation	Rough Terrain Forklifts	2	8.00	100	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Bore/Drill Rigs	1	4.00	221	0.50
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Crushing/Proc. Equipment	1	4.00	85	0.78
Grading	Excavators	2	8.00	158	0.38

MetroLink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

Grading	Graders	1	8.00	187	0.41
Grading	Rough Terrain Forklifts	2	8.00	100	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Bore/Drill Rigs	1	4.00	221	0.50
Building Construction	Cement and Mortar Mixers	2	8.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Excavators	2	6.00	158	0.38
Building Construction	Other Material Handling Equipment	1	8.00	168	0.40
Building Construction	Rough Terrain Forklifts	2	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Rough Terrain Forklifts	2	8.00	100	0.40
Paving	Skid Steer Loaders	2	8.00	65	0.37
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Other Material Handling Equipment	2	8.00	168	0.40
Trenching	Rollers	2	4.00	80	0.38
Trenching	Rough Terrain Forklifts	2	8.00	100	0.40
Trenching	Skid Steer Loaders	2	8.00	65	0.37
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	10	60.00	40.00	2,600.00	14.70	3.00	20.00	LD_Mix	MHDT	HHDT
Grading	12	120.00	40.00	13,000.00	14.70	3.00	20.00	LD_Mix	MHDT	HHDT
Building Construction	12	120.00	80.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	12	60.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	10	60.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1958	0.0000	0.1958	0.1076	0.0000	0.1076	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0625	0.6122	0.7920	1.3200e-003		0.0273	0.0273		0.0251	0.0251	0.0000	115.5215	115.5215	0.0374	0.0000	116.4555
Total	0.0625	0.6122	0.7920	1.3200e-003	0.1958	0.0273	0.2231	0.1076	0.0251	0.1327	0.0000	115.5215	115.5215	0.0374	0.0000	116.4555

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.2 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.8600e-003	0.2176	0.0761	9.4000e-004	0.0224	3.9000e-004	0.0227	6.1400e-003	3.7000e-004	6.5100e-003	0.0000	93.4198	93.4198	6.2900e-003	0.0000	93.5769
Vendor	1.5900e-003	0.0367	0.0183	1.0000e-004	3.7800e-003	3.0000e-005	3.8100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	9.6952	9.6952	1.8000e-004	0.0000	9.6997
Worker	7.0100e-003	4.8700e-003	0.0582	1.9000e-004	0.0214	1.6000e-004	0.0215	5.6800e-003	1.5000e-004	5.8300e-003	0.0000	17.3694	17.3694	4.2000e-004	0.0000	17.3800
Total	0.0155	0.2592	0.1526	1.2300e-003	0.0475	5.8000e-004	0.0481	0.0130	5.5000e-004	0.0135	0.0000	120.4844	120.4844	6.8900e-003	0.0000	120.6566

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0764	0.0000	0.0764	0.0420	0.0000	0.0420	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0172	0.0976	0.9063	1.3200e-003		2.6000e-003	2.6000e-003		2.5600e-003	2.5600e-003	0.0000	115.5213	115.5213	0.0374	0.0000	116.4554
Total	0.0172	0.0976	0.9063	1.3200e-003	0.0764	2.6000e-003	0.0790	0.0420	2.5600e-003	0.0445	0.0000	115.5213	115.5213	0.0374	0.0000	116.4554

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.2 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.8600e-003	0.2176	0.0761	9.4000e-004	0.0224	3.9000e-004	0.0227	6.1400e-003	3.7000e-004	6.5100e-003	0.0000	93.4198	93.4198	6.2900e-003	0.0000	93.5769
Vendor	1.5900e-003	0.0367	0.0183	1.0000e-004	3.7800e-003	3.0000e-005	3.8100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	9.6952	9.6952	1.8000e-004	0.0000	9.6997
Worker	7.0100e-003	4.8700e-003	0.0582	1.9000e-004	0.0214	1.6000e-004	0.0215	5.6800e-003	1.5000e-004	5.8300e-003	0.0000	17.3694	17.3694	4.2000e-004	0.0000	17.3800
Total	0.0155	0.2592	0.1526	1.2300e-003	0.0475	5.8000e-004	0.0481	0.0130	5.5000e-004	0.0135	0.0000	120.4844	120.4844	6.8900e-003	0.0000	120.6566

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4989	0.0000	0.4989	0.2269	0.0000	0.2269	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1995	2.0494	1.8169	4.0700e-003		0.0829	0.0829		0.0766	0.0766	0.0000	356.5896	356.5896	0.1101	0.0000	359.3420
Total	0.1995	2.0494	1.8169	4.0700e-003	0.4989	0.0829	0.5817	0.2269	0.0766	0.3035	0.0000	356.5896	356.5896	0.1101	0.0000	359.3420

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.3 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0343	1.0882	0.3804	4.7200e-003	0.1117	1.9400e-003	0.1137	0.0307	1.8500e-003	0.0325	0.0000	467.0987	467.0987	0.0314	0.0000	467.8844
Vendor	3.1800e-003	0.0734	0.0366	2.1000e-004	7.5700e-003	6.0000e-005	7.6200e-003	2.2800e-003	5.0000e-005	2.3400e-003	0.0000	19.3905	19.3905	3.6000e-004	0.0000	19.3995
Worker	0.0280	0.0195	0.2327	7.7000e-004	0.0855	6.5000e-004	0.0861	0.0227	6.0000e-004	0.0233	0.0000	69.4775	69.4775	1.6900e-003	0.0000	69.5198
Total	0.0655	1.1811	0.6497	5.7000e-003	0.2048	2.6500e-003	0.2074	0.0557	2.5000e-003	0.0582	0.0000	555.9668	555.9668	0.0335	0.0000	556.8037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1946	0.0000	0.1946	0.0885	0.0000	0.0885	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0494	0.2140	2.3355	4.0700e-003		6.5900e-003	6.5900e-003		6.5900e-003	6.5900e-003	0.0000	356.5892	356.5892	0.1101	0.0000	359.3416
Total	0.0494	0.2140	2.3355	4.0700e-003	0.1946	6.5900e-003	0.2012	0.0885	6.5900e-003	0.0951	0.0000	356.5892	356.5892	0.1101	0.0000	359.3416

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.3 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0343	1.0882	0.3804	4.7200e-003	0.1117	1.9400e-003	0.1137	0.0307	1.8500e-003	0.0325	0.0000	467.0987	467.0987	0.0314	0.0000	467.8844
Vendor	3.1800e-003	0.0734	0.0366	2.1000e-004	7.5700e-003	6.0000e-005	7.6200e-003	2.2800e-003	5.0000e-005	2.3400e-003	0.0000	19.3905	19.3905	3.6000e-004	0.0000	19.3995
Worker	0.0280	0.0195	0.2327	7.7000e-004	0.0855	6.5000e-004	0.0861	0.0227	6.0000e-004	0.0233	0.0000	69.4775	69.4775	1.6900e-003	0.0000	69.5198
Total	0.0655	1.1811	0.6497	5.7000e-003	0.2048	2.6500e-003	0.2074	0.0557	2.5000e-003	0.0582	0.0000	555.9668	555.9668	0.0335	0.0000	556.8037

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0339	0.3213	0.4684	8.4000e-004		0.0137	0.0137		0.0127	0.0127	0.0000	72.7430	72.7430	0.0231	0.0000	73.3206
Total	0.0339	0.3213	0.4684	8.4000e-004		0.0137	0.0137		0.0127	0.0127	0.0000	72.7430	72.7430	0.0231	0.0000	73.3206

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	3.5500e-003	0.1186	0.0370	4.1000e-004	0.0106	1.4000e-004	0.0107	3.0500e-003	1.3000e-004	3.1900e-003	0.0000	39.6042	39.6042	2.1300e-003	0.0000	39.6576
Worker	9.0600e-003	6.2900e-003	0.0752	2.5000e-004	0.0276	2.1000e-004	0.0278	7.3300e-003	1.9000e-004	7.5300e-003	0.0000	22.4466	22.4466	5.5000e-004	0.0000	22.4603
Total	0.0126	0.1249	0.1122	6.6000e-004	0.0382	3.5000e-004	0.0386	0.0104	3.2000e-004	0.0107	0.0000	62.0508	62.0508	2.6800e-003	0.0000	62.1179

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9000e-003	0.0429	0.5470	8.4000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	72.7430	72.7430	0.0231	0.0000	73.3205
Total	9.9000e-003	0.0429	0.5470	8.4000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	72.7430	72.7430	0.0231	0.0000	73.3205

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	3.5500e-003	0.1186	0.0370	4.1000e-004	0.0106	1.4000e-004	0.0107	3.0500e-003	1.3000e-004	3.1900e-003	0.0000	39.6042	39.6042	2.1300e-003	0.0000	39.6576
Worker	9.0600e-003	6.2900e-003	0.0752	2.5000e-004	0.0276	2.1000e-004	0.0278	7.3300e-003	1.9000e-004	7.5300e-003	0.0000	22.4466	22.4466	5.5000e-004	0.0000	22.4603
Total	0.0126	0.1249	0.1122	6.6000e-004	0.0382	3.5000e-004	0.0386	0.0104	3.2000e-004	0.0107	0.0000	62.0508	62.0508	2.6800e-003	0.0000	62.1179

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0363	0.3360	0.5333	9.6000e-004		0.0136	0.0136		0.0126	0.0126	0.0000	83.1521	83.1521	0.0264	0.0000	83.8124
Total	0.0363	0.3360	0.5333	9.6000e-004		0.0136	0.0136		0.0126	0.0126	0.0000	83.1521	83.1521	0.0264	0.0000	83.8124

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	3.9500e-003	0.1343	0.0412	4.6000e-004	0.0121	1.5000e-004	0.0123	3.4900e-003	1.5000e-004	3.6400e-003	0.0000	45.0154	45.0154	2.4000e-003	0.0000	45.0755
Worker	9.8400e-003	6.5800e-003	0.0798	2.7000e-004	0.0316	2.4000e-004	0.0318	8.3800e-003	2.2000e-004	8.6000e-003	0.0000	24.6599	24.6599	5.7000e-004	0.0000	24.6742
Total	0.0138	0.1409	0.1209	7.3000e-004	0.0437	3.9000e-004	0.0441	0.0119	3.7000e-004	0.0122	0.0000	69.6753	69.6753	2.9700e-003	0.0000	69.7496

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0113	0.0490	0.6252	9.6000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	83.1520	83.1520	0.0264	0.0000	83.8123
Total	0.0113	0.0490	0.6252	9.6000e-004		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	83.1520	83.1520	0.0264	0.0000	83.8123

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.4 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	3.9500e-003	0.1343	0.0412	4.6000e-004	0.0121	1.5000e-004	0.0123	3.4900e-003	1.5000e-004	3.6400e-003	0.0000	45.0154	45.0154	2.4000e-003	0.0000	45.0755
Worker	9.8400e-003	6.5800e-003	0.0798	2.7000e-004	0.0316	2.4000e-004	0.0318	8.3800e-003	2.2000e-004	8.6000e-003	0.0000	24.6599	24.6599	5.7000e-004	0.0000	24.6742
Total	0.0138	0.1409	0.1209	7.3000e-004	0.0437	3.9000e-004	0.0441	0.0119	3.7000e-004	0.0122	0.0000	69.6753	69.6753	2.9700e-003	0.0000	69.7496

3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0410	0.4217	0.6887	1.0400e-003		0.0171	0.0171		0.0158	0.0158	0.0000	90.5229	90.5229	0.0286	0.0000	91.2384
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0410	0.4217	0.6887	1.0400e-003		0.0171	0.0171		0.0158	0.0158	0.0000	90.5229	90.5229	0.0286	0.0000	91.2384

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.5 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	2.6800e-003	0.0910	0.0279	3.1000e-004	8.1900e-003	1.0000e-004	8.2900e-003	2.3600e-003	1.0000e-004	2.4600e-003	0.0000	30.4792	30.4792	1.6300e-003	0.0000	30.5199
Worker	6.6600e-003	4.4500e-003	0.0540	1.8000e-004	0.0214	1.6000e-004	0.0215	5.6800e-003	1.5000e-004	5.8200e-003	0.0000	16.6968	16.6968	3.9000e-004	0.0000	16.7065
Total	9.3400e-003	0.0954	0.0819	4.9000e-004	0.0296	2.6000e-004	0.0298	8.0400e-003	2.5000e-004	8.2800e-003	0.0000	47.1760	47.1760	2.0200e-003	0.0000	47.2263

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1070	0.7470	1.0400e-003		2.4400e-003	2.4400e-003		2.3600e-003	2.3600e-003	0.0000	90.5227	90.5227	0.0286	0.0000	91.2383
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0142	0.1070	0.7470	1.0400e-003		2.4400e-003	2.4400e-003		2.3600e-003	2.3600e-003	0.0000	90.5227	90.5227	0.0286	0.0000	91.2383

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.5 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	2.6800e-003	0.0910	0.0279	3.1000e-004	8.1900e-003	1.0000e-004	8.2900e-003	2.3600e-003	1.0000e-004	2.4600e-003	0.0000	30.4792	30.4792	1.6300e-003	0.0000	30.5199
Worker	6.6600e-003	4.4500e-003	0.0540	1.8000e-004	0.0214	1.6000e-004	0.0215	5.6800e-003	1.5000e-004	5.8200e-003	0.0000	16.6968	16.6968	3.9000e-004	0.0000	16.7065
Total	9.3400e-003	0.0954	0.0819	4.9000e-004	0.0296	2.6000e-004	0.0298	8.0400e-003	2.5000e-004	8.2800e-003	0.0000	47.1760	47.1760	2.0200e-003	0.0000	47.2263

3.6 Trenching - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0262	0.2604	0.4758	7.1000e-004		0.0106	0.0106		9.7800e-003	9.7800e-003	0.0000	62.1721	62.1721	0.0201	0.0000	62.6748
Total	0.0262	0.2604	0.4758	7.1000e-004		0.0106	0.0106		9.7800e-003	9.7800e-003	0.0000	62.1721	62.1721	0.0201	0.0000	62.6748

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.6 Trenching - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	1.8500e-003	0.0630	0.0193	2.2000e-004	5.6700e-003	7.0000e-005	5.7400e-003	1.6400e-003	7.0000e-005	1.7100e-003	0.0000	21.1010	21.1010	1.1300e-003	0.0000	21.1291
Worker	4.6100e-003	3.0800e-003	0.0374	1.3000e-004	0.0148	1.1000e-004	0.0149	3.9300e-003	1.0000e-004	4.0300e-003	0.0000	11.5593	11.5593	2.7000e-004	0.0000	11.5660
Total	6.4600e-003	0.0661	0.0567	3.5000e-004	0.0205	1.8000e-004	0.0206	5.5700e-003	1.7000e-004	5.7400e-003	0.0000	32.6603	32.6603	1.4000e-003	0.0000	32.6951

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0101	0.0750	0.5303	7.1000e-004		1.7200e-003	1.7200e-003		1.6600e-003	1.6600e-003	0.0000	62.1720	62.1720	0.0201	0.0000	62.6747
Total	0.0101	0.0750	0.5303	7.1000e-004		1.7200e-003	1.7200e-003		1.6600e-003	1.6600e-003	0.0000	62.1720	62.1720	0.0201	0.0000	62.6747

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

3.6 Trenching - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	1.8500e-003	0.0630	0.0193	2.2000e-004	5.6700e-003	7.0000e-005	5.7400e-003	1.6400e-003	7.0000e-005	1.7100e-003	0.0000	21.1010	21.1010	1.1300e-003	0.0000	21.1291
Worker	4.6100e-003	3.0800e-003	0.0374	1.3000e-004	0.0148	1.1000e-004	0.0149	3.9300e-003	1.0000e-004	4.0300e-003	0.0000	11.5593	11.5593	2.7000e-004	0.0000	11.5660
Total	6.4600e-003	0.0661	0.0567	3.5000e-004	0.0205	1.8000e-004	0.0206	5.5700e-003	1.7000e-004	5.7400e-003	0.0000	32.6603	32.6603	1.4000e-003	0.0000	32.6951

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	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
Unmitigated	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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Non-Asphalt Surfaces	0	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
Total		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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0395	6.0000e-005	6.3100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Unmitigated	0.0395	6.0000e-005	6.3100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0321					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8000e-004	6.0000e-005	6.3100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Total	0.0395	6.0000e-005	6.3100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0321					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.8000e-004	6.0000e-005	6.3100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131
Total	0.0395	6.0000e-005	6.3100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0123	0.0123	3.0000e-005	0.0000	0.0131

7.0 Water Detail

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

Metrolink AVL Construction - Balboa Site - Los Angeles-South Coast County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

Metro AVL Construction - Lancaster Site (Base)
Los Angeles-Mojave Desert County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	66.72	1000sqft	1.53	66,720.00	0
Other Non-Asphalt Surfaces	73.65	1000sqft	1.69	73,650.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2028
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

Project Characteristics -

Land Use -

Construction Phase - Preliminary Construction Schedule.

Off-road Equipment - Project Inventory sourced from Constructability Review.

Off-road Equipment - Project Inventory sourced from Constructability Review.

Off-road Equipment - Project Inventory sourced from Constructability Review.

Off-road Equipment - Project Inventory sourced from Constructability Review.

Off-road Equipment - Project Inventory sourced from Constructability Review.

Trips and VMT - Vendor trips during Site Prep & Grading = water trucks.

Grading -

Construction Off-road Equipment Mitigation - LACMTA Green Construction Policy - Tier 4 Equipment.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	25.00
tblConstructionPhase	NumDays	8.00	65.00
tblConstructionPhase	NumDays	230.00	130.00
tblConstructionPhase	NumDays	18.00	130.00
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialExported	0.00	200.00
tblGrading	MaterialImported	0.00	13,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

tblTripsAndVMT	HaulingTripNumber	20.00	500.00
tblTripsAndVMT	HaulingTripNumber	2,563.00	6,500.00
tblTripsAndVMT	VendorTripLength	7.30	2.00
tblTripsAndVMT	VendorTripLength	7.30	2.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	23.00	80.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	40.00
tblTripsAndVMT	WorkerTripNumber	25.00	60.00
tblTripsAndVMT	WorkerTripNumber	30.00	120.00
tblTripsAndVMT	WorkerTripNumber	59.00	120.00
tblTripsAndVMT	WorkerTripNumber	30.00	60.00
tblTripsAndVMT	WorkerTripNumber	25.00	60.00

2.0 Emissions Summary

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.1347	1.6570	1.4114	5.1100e-003	0.4023	0.0427	0.4450	0.1709	0.0394	0.2103	0.0000	477.0359	477.0359	0.0816	0.0000	479.0751
2027	0.2232	2.3186	3.1075	7.4800e-003	0.2617	0.0698	0.3315	0.0668	0.0645	0.1313	0.0000	675.8660	675.8660	0.1382	0.0000	679.3218
2028	0.0310	0.3243	0.5123	1.0100e-003	0.0169	0.0107	0.0276	4.6200e-003	9.8700e-003	0.0145	0.0000	90.9620	90.9620	0.0211	0.0000	91.4895
Maximum	0.2232	2.3186	3.1075	7.4800e-003	0.4023	0.0698	0.4450	0.1709	0.0645	0.2103	0.0000	675.8660	675.8660	0.1382	0.0000	679.3218

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2026	0.0586	0.7552	1.7071	5.1100e-003	0.2158	5.0500e-003	0.2208	0.0826	4.9800e-003	0.0876	0.0000	477.0357	477.0357	0.0816	0.0000	479.0749
2027	0.1054	0.9748	3.4958	7.4800e-003	0.2184	8.5700e-003	0.2270	0.0572	8.4800e-003	0.0657	0.0000	675.8655	675.8655	0.1382	0.0000	679.3213
2028	0.0147	0.1486	0.5700	1.0100e-003	0.0169	1.2800e-003	0.0182	4.6200e-003	1.2700e-003	5.8900e-003	0.0000	90.9619	90.9619	0.0211	0.0000	91.4895
Maximum	0.1054	0.9748	3.4958	7.4800e-003	0.2184	8.5700e-003	0.2270	0.0826	8.4800e-003	0.0876	0.0000	675.8655	675.8655	0.1382	0.0000	679.3213

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	54.03	56.31	-14.74	0.00	33.75	87.90	42.05	40.39	87.06	55.30	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-7-2026	12-6-2026	1.2902	0.5768
2	12-7-2026	3-6-2027	1.0138	0.4440
3	3-7-2027	6-6-2027	0.7115	0.2844
4	6-7-2027	9-6-2027	0.5732	0.2452
5	9-7-2027	12-6-2027	0.5082	0.2292
6	12-7-2027	3-6-2028	0.4831	0.2206
		Highest	1.2902	0.5768

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0141	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003
Energy	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
Mobile	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
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0141	1.0000e-005	1.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0141	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003
Energy	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
Mobile	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
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0141	1.0000e-005	1.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/7/2026	10/9/2026	5	25	1) Site clearing/grubbing/tree removal.
2	Grading	Grading	10/12/2026	1/8/2027	5	65	2) Excavation/grading/shoring/piling/backfill
3	Building Construction	Building Construction	1/11/2027	7/9/2027	5	130	3) Platform & mini platform construction/extension; access features.
4	Paving	Paving	7/12/2027	1/7/2028	5	130	4) Layover facilities; track installation.
5	Trenching	Trenching	1/10/2028	3/3/2028	5	40	5) Utilities & signals.

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 97.5

Acres of Paving: 3.22

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	2	4.00	158	0.38
Site Preparation	Other Material Handling Equipment	2	8.00	168	0.40
Site Preparation	Rough Terrain Forklifts	2	8.00	100	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Bore/Drill Rigs	1	4.00	221	0.50
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Crushing/Proc. Equipment	1	4.00	85	0.78
Grading	Excavators	2	8.00	158	0.38

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

Grading	Graders	1	8.00	187	0.41
Grading	Rough Terrain Forklifts	2	8.00	100	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Bore/Drill Rigs	1	4.00	221	0.50
Building Construction	Cement and Mortar Mixers	2	8.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Excavators	2	6.00	158	0.38
Building Construction	Other Material Handling Equipment	1	8.00	168	0.40
Building Construction	Rough Terrain Forklifts	2	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Rough Terrain Forklifts	2	8.00	100	0.40
Paving	Skid Steer Loaders	2	8.00	65	0.37
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Other Material Handling Equipment	2	8.00	168	0.40
Trenching	Rollers	2	4.00	80	0.38
Trenching	Rough Terrain Forklifts	2	8.00	100	0.40
Trenching	Skid Steer Loaders	2	8.00	65	0.37
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	10	60.00	40.00	500.00	10.80	2.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	120.00	40.00	6,500.00	10.80	2.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	120.00	80.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	12	60.00	40.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	10	60.00	40.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0753	0.0000	0.0753	0.0414	0.0000	0.0414	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.2149	0.3022	5.1000e-004		9.0700e-003	9.0700e-003		8.3500e-003	8.3500e-003	0.0000	44.4370	44.4370	0.0144	0.0000	44.7963
Total	0.0223	0.2149	0.3022	5.1000e-004	0.0753	9.0700e-003	0.0844	0.0414	8.3500e-003	0.0497	0.0000	44.4370	44.4370	0.0144	0.0000	44.7963

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.2 Site Preparation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-003	0.0406	0.0148	1.8000e-004	4.3000e-003	7.0000e-005	4.3700e-003	1.1800e-003	7.0000e-005	1.2500e-003	0.0000	17.7704	17.7704	1.2000e-003	0.0000	17.8005
Vendor	6.1000e-004	0.0272	6.8600e-003	5.0000e-005	9.2000e-004	1.0000e-005	9.4000e-004	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	5.0806	5.0806	3.8000e-004	0.0000	5.0900
Worker	1.9200e-003	1.1900e-003	0.0148	5.0000e-005	6.0400e-003	4.0000e-005	6.0800e-003	1.6000e-003	4.0000e-005	1.6500e-003	0.0000	4.5877	4.5877	1.0000e-004	0.0000	4.5903
Total	3.8300e-003	0.0690	0.0365	2.8000e-004	0.0113	1.2000e-004	0.0114	3.0500e-003	1.2000e-004	3.1800e-003	0.0000	27.4387	27.4387	1.6800e-003	0.0000	27.4807

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0294	0.0000	0.0294	0.0161	0.0000	0.0161	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5200e-003	0.0400	0.3500	5.1000e-004		8.3000e-004	8.3000e-004		8.3000e-004	8.3000e-004	0.0000	44.4370	44.4370	0.0144	0.0000	44.7963
Total	6.5200e-003	0.0400	0.3500	5.1000e-004	0.0294	8.3000e-004	0.0302	0.0161	8.3000e-004	0.0170	0.0000	44.4370	44.4370	0.0144	0.0000	44.7963

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.2 Site Preparation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-003	0.0406	0.0148	1.8000e-004	4.3000e-003	7.0000e-005	4.3700e-003	1.1800e-003	7.0000e-005	1.2500e-003	0.0000	17.7704	17.7704	1.2000e-003	0.0000	17.8005
Vendor	6.1000e-004	0.0272	6.8600e-003	5.0000e-005	9.2000e-004	1.0000e-005	9.4000e-004	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	5.0806	5.0806	3.8000e-004	0.0000	5.0900
Worker	1.9200e-003	1.1900e-003	0.0148	5.0000e-005	6.0400e-003	4.0000e-005	6.0800e-003	1.6000e-003	4.0000e-005	1.6500e-003	0.0000	4.5877	4.5877	1.0000e-004	0.0000	4.5903
Total	3.8300e-003	0.0690	0.0365	2.8000e-004	0.0113	1.2000e-004	0.0114	3.0500e-003	1.2000e-004	3.1800e-003	0.0000	27.4387	27.4387	1.6800e-003	0.0000	27.4807

3.3 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2305	0.0000	0.2305	0.1034	0.0000	0.1034	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0828	0.8240	0.8120	1.8400e-003		0.0324	0.0324		0.0299	0.0299	0.0000	161.8255	161.8255	0.0500	0.0000	163.0742
Total	0.0828	0.8240	0.8120	1.8400e-003	0.2305	0.0324	0.2629	0.1034	0.0299	0.1333	0.0000	161.8255	161.8255	0.0500	0.0000	163.0742

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.3 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0154	0.4793	0.1748	2.1200e-003	0.0546	8.5000e-004	0.0554	0.0149	8.1000e-004	0.0157	0.0000	209.6905	209.6905	0.0142	0.0000	210.0454
Vendor	1.4400e-003	0.0642	0.0162	1.2000e-004	2.1800e-003	4.0000e-005	2.2100e-003	6.3000e-004	3.0000e-005	6.6000e-004	0.0000	11.9901	11.9901	8.9000e-004	0.0000	12.0124
Worker	9.0700e-003	5.6200e-003	0.0698	2.4000e-004	0.0285	2.1000e-004	0.0287	7.5700e-003	1.9000e-004	7.7700e-003	0.0000	21.6541	21.6541	4.8000e-004	0.0000	21.6662
Total	0.0259	0.5491	0.2607	2.4800e-003	0.0853	1.1000e-003	0.0864	0.0231	1.0300e-003	0.0241	0.0000	243.3348	243.3348	0.0156	0.0000	243.7239

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0899	0.0000	0.0899	0.0403	0.0000	0.0403	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0224	0.0971	1.0600	1.8400e-003		2.9900e-003	2.9900e-003		2.9900e-003	2.9900e-003	0.0000	161.8253	161.8253	0.0500	0.0000	163.0740
Total	0.0224	0.0971	1.0600	1.8400e-003	0.0899	2.9900e-003	0.0929	0.0403	2.9900e-003	0.0433	0.0000	161.8253	161.8253	0.0500	0.0000	163.0740

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.3 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0154	0.4793	0.1748	2.1200e-003	0.0546	8.5000e-004	0.0554	0.0149	8.1000e-004	0.0157	0.0000	209.6905	209.6905	0.0142	0.0000	210.0454
Vendor	1.4400e-003	0.0642	0.0162	1.2000e-004	2.1800e-003	4.0000e-005	2.2100e-003	6.3000e-004	3.0000e-005	6.6000e-004	0.0000	11.9901	11.9901	8.9000e-004	0.0000	12.0124
Worker	9.0700e-003	5.6200e-003	0.0698	2.4000e-004	0.0285	2.1000e-004	0.0287	7.5700e-003	1.9000e-004	7.7700e-003	0.0000	21.6541	21.6541	4.8000e-004	0.0000	21.6662
Total	0.0259	0.5491	0.2607	2.4800e-003	0.0853	1.1000e-003	0.0864	0.0231	1.0300e-003	0.0241	0.0000	243.3348	243.3348	0.0156	0.0000	243.7239

3.3 Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0709	0.0000	0.0709	0.0157	0.0000	0.0157	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.4200e-003	0.0838	0.0826	1.9000e-004		3.2900e-003	3.2900e-003		3.0400e-003	3.0400e-003	0.0000	16.4568	16.4568	5.0800e-003	0.0000	16.5838
Total	8.4200e-003	0.0838	0.0826	1.9000e-004	0.0709	3.2900e-003	0.0742	0.0157	3.0400e-003	0.0187	0.0000	16.4568	16.4568	5.0800e-003	0.0000	16.5838

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.3 Grading - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5500e-003	0.0481	0.0179	2.1000e-004	0.0433	8.0000e-005	0.0434	0.0108	8.0000e-005	0.0109	0.0000	21.2223	21.2223	1.4400e-003	0.0000	21.2582
Vendor	1.4000e-004	6.4800e-003	1.6100e-003	1.0000e-005	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	1.2120	1.2120	9.0000e-005	0.0000	1.2142
Worker	8.8000e-004	5.3000e-004	6.6400e-003	2.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.1319	2.1319	4.0000e-005	0.0000	2.1330
Total	2.5700e-003	0.0551	0.0261	2.4000e-004	0.0464	1.0000e-004	0.0465	0.0116	1.0000e-004	0.0117	0.0000	24.5662	24.5662	1.5700e-003	0.0000	24.6055

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0277	0.0000	0.0277	6.1200e-003	0.0000	6.1200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2800e-003	9.8800e-003	0.1078	1.9000e-004		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	16.4568	16.4568	5.0800e-003	0.0000	16.5838
Total	2.2800e-003	9.8800e-003	0.1078	1.9000e-004	0.0277	3.0000e-004	0.0280	6.1200e-003	3.0000e-004	6.4200e-003	0.0000	16.4568	16.4568	5.0800e-003	0.0000	16.5838

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.3 Grading - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5500e-003	0.0481	0.0179	2.1000e-004	0.0433	8.0000e-005	0.0434	0.0108	8.0000e-005	0.0109	0.0000	21.2223	21.2223	1.4400e-003	0.0000	21.2582
Vendor	1.4000e-004	6.4800e-003	1.6100e-003	1.0000e-005	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	1.2120	1.2120	9.0000e-005	0.0000	1.2142
Worker	8.8000e-004	5.3000e-004	6.6400e-003	2.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.1319	2.1319	4.0000e-005	0.0000	2.1330
Total	2.5700e-003	0.0551	0.0261	2.4000e-004	0.0464	1.0000e-004	0.0465	0.0116	1.0000e-004	0.0117	0.0000	24.5662	24.5662	1.5700e-003	0.0000	24.6055

3.4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0983	0.9101	1.4444	2.5900e-003		0.0368	0.0368		0.0340	0.0340	0.0000	225.2036	225.2036	0.0715	0.0000	226.9918
Total	0.0983	0.9101	1.4444	2.5900e-003		0.0368	0.0368		0.0340	0.0340	0.0000	225.2036	225.2036	0.0715	0.0000	226.9918

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	0.0106	0.3633	0.1105	1.3000e-003	0.0347	4.2000e-004	0.0351	0.0100	4.0000e-004	0.0104	0.0000	126.2663	126.2663	6.5300e-003	0.0000	126.4294
Worker	0.0190	0.0114	0.1440	5.1000e-004	0.0628	4.4000e-004	0.0633	0.0167	4.1000e-004	0.0171	0.0000	46.1916	46.1916	9.7000e-004	0.0000	46.2159
Total	0.0296	0.3747	0.2545	1.8100e-003	0.0975	8.6000e-004	0.0983	0.0267	8.1000e-004	0.0275	0.0000	172.4579	172.4579	7.5000e-003	0.0000	172.6453

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0306	0.1327	1.6932	2.5900e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	225.2033	225.2033	0.0715	0.0000	226.9915
Total	0.0306	0.1327	1.6932	2.5900e-003		4.0800e-003	4.0800e-003		4.0800e-003	4.0800e-003	0.0000	225.2033	225.2033	0.0715	0.0000	226.9915

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	0.0106	0.3633	0.1105	1.3000e-003	0.0347	4.2000e-004	0.0351	0.0100	4.0000e-004	0.0104	0.0000	126.2663	126.2663	6.5300e-003	0.0000	126.4294
Worker	0.0190	0.0114	0.1440	5.1000e-004	0.0628	4.4000e-004	0.0633	0.0167	4.1000e-004	0.0171	0.0000	46.1916	46.1916	9.7000e-004	0.0000	46.2159
Total	0.0296	0.3747	0.2545	1.8100e-003	0.0975	8.6000e-004	0.0983	0.0267	8.1000e-004	0.0275	0.0000	172.4579	172.4579	7.5000e-003	0.0000	172.6453

3.5 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0682	0.7148	1.1776	1.7700e-003		0.0283	0.0283		0.0261	0.0261	0.0000	154.2690	154.2690	0.0490	0.0000	155.4928
Paving	1.9300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0701	0.7148	1.1776	1.7700e-003		0.0283	0.0283		0.0261	0.0261	0.0000	154.2690	154.2690	0.0490	0.0000	155.4928

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.5 Paving - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	5.0900e-003	0.1747	0.0531	6.2000e-004	0.0167	2.0000e-004	0.0169	4.8100e-003	1.9000e-004	5.0000e-003	0.0000	60.7049	60.7049	3.1400e-003	0.0000	60.7834
Worker	9.1600e-003	5.4900e-003	0.0692	2.5000e-004	0.0302	2.1000e-004	0.0304	8.0200e-003	2.0000e-004	8.2200e-003	0.0000	22.2075	22.2075	4.7000e-004	0.0000	22.2192
Total	0.0143	0.1801	0.1223	8.7000e-004	0.0469	4.1000e-004	0.0473	0.0128	3.9000e-004	0.0132	0.0000	82.9124	82.9124	3.6100e-003	0.0000	83.0026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0241	0.2223	1.2919	1.7700e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	154.2689	154.2689	0.0490	0.0000	155.4926
Paving	1.9300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0261	0.2223	1.2919	1.7700e-003		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	154.2689	154.2689	0.0490	0.0000	155.4926

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.5 Paving - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	5.0900e-003	0.1747	0.0531	6.2000e-004	0.0167	2.0000e-004	0.0169	4.8100e-003	1.9000e-004	5.0000e-003	0.0000	60.7049	60.7049	3.1400e-003	0.0000	60.7834
Worker	9.1600e-003	5.4900e-003	0.0692	2.5000e-004	0.0302	2.1000e-004	0.0304	8.0200e-003	2.0000e-004	8.2200e-003	0.0000	22.2075	22.2075	4.7000e-004	0.0000	22.2192
Total	0.0143	0.1801	0.1223	8.7000e-004	0.0469	4.1000e-004	0.0473	0.0128	3.9000e-004	0.0132	0.0000	82.9124	82.9124	3.6100e-003	0.0000	83.0026

3.5 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7300e-003	0.0286	0.0471	7.0000e-005		1.1300e-003	1.1300e-003		1.0500e-003	1.0500e-003	0.0000	6.1708	6.1708	1.9600e-003	0.0000	6.2197
Paving	8.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.8100e-003	0.0286	0.0471	7.0000e-005		1.1300e-003	1.1300e-003		1.0500e-003	1.0500e-003	0.0000	6.1708	6.1708	1.9600e-003	0.0000	6.2197

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.5 Paving - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	2.0000e-004	6.9300e-003	2.1000e-003	2.0000e-005	6.7000e-004	1.0000e-005	6.7000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.4184	2.4184	1.2000e-004	0.0000	2.4215
Worker	3.5000e-004	2.0000e-004	2.6100e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8624	0.8624	2.0000e-005	0.0000	0.8628
Total	5.5000e-004	7.1300e-003	4.7100e-003	3.0000e-005	1.8800e-003	2.0000e-005	1.8900e-003	5.1000e-004	2.0000e-005	5.3000e-004	0.0000	3.2808	3.2808	1.4000e-004	0.0000	3.2843

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.7000e-004	8.8900e-003	0.0517	7.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	6.1708	6.1708	1.9600e-003	0.0000	6.2197
Paving	8.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0500e-003	8.8900e-003	0.0517	7.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	6.1708	6.1708	1.9600e-003	0.0000	6.2197

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.5 Paving - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	2.0000e-004	6.9300e-003	2.1000e-003	2.0000e-005	6.7000e-004	1.0000e-005	6.7000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.4184	2.4184	1.2000e-004	0.0000	2.4215
Worker	3.5000e-004	2.0000e-004	2.6100e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.8624	0.8624	2.0000e-005	0.0000	0.8628
Total	5.5000e-004	7.1300e-003	4.7100e-003	3.0000e-005	1.8800e-003	2.0000e-005	1.8900e-003	5.1000e-004	2.0000e-005	5.3000e-004	0.0000	3.2808	3.2808	1.4000e-004	0.0000	3.2843

3.6 Trenching - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0232	0.2315	0.4229	6.3000e-004		9.4500e-003	9.4500e-003		8.6900e-003	8.6900e-003	0.0000	55.2641	55.2641	0.0179	0.0000	55.7109
Total	0.0232	0.2315	0.4229	6.3000e-004		9.4500e-003	9.4500e-003		8.6900e-003	8.6900e-003	0.0000	55.2641	55.2641	0.0179	0.0000	55.7109

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.6 Trenching - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	1.6000e-003	0.0555	0.0168	2.0000e-004	5.3300e-003	6.0000e-005	5.3900e-003	1.5400e-003	6.0000e-005	1.6000e-003	0.0000	19.3473	19.3473	9.9000e-004	0.0000	19.3720
Worker	2.7800e-003	1.6200e-003	0.0208	8.0000e-005	9.6600e-003	6.0000e-005	9.7300e-003	2.5700e-003	6.0000e-005	2.6300e-003	0.0000	6.8991	6.8991	1.4000e-004	0.0000	6.9026
Total	4.3800e-003	0.0571	0.0376	2.8000e-004	0.0150	1.2000e-004	0.0151	4.1100e-003	1.2000e-004	4.2300e-003	0.0000	26.2464	26.2464	1.1300e-003	0.0000	26.2746

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.7400e-003	0.0755	0.4760	6.3000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	55.2640	55.2640	0.0179	0.0000	55.7109
Total	8.7400e-003	0.0755	0.4760	6.3000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	55.2640	55.2640	0.0179	0.0000	55.7109

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

3.6 Trenching - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	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
Vendor	1.6000e-003	0.0555	0.0168	2.0000e-004	5.3300e-003	6.0000e-005	5.3900e-003	1.5400e-003	6.0000e-005	1.6000e-003	0.0000	19.3473	19.3473	9.9000e-004	0.0000	19.3720
Worker	2.7800e-003	1.6200e-003	0.0208	8.0000e-005	9.6600e-003	6.0000e-005	9.7300e-003	2.5700e-003	6.0000e-005	2.6300e-003	0.0000	6.8991	6.8991	1.4000e-004	0.0000	6.9026
Total	4.3800e-003	0.0571	0.0376	2.8000e-004	0.0150	1.2000e-004	0.0151	4.1100e-003	1.2000e-004	4.2300e-003	0.0000	26.2464	26.2464	1.1300e-003	0.0000	26.2746

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	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
Unmitigated	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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Other Non-Asphalt Surfaces	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0141	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003
Unmitigated	0.0141	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.8800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003
Total	0.0141	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.8800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	9.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003
Total	0.0141	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

Metro AVL Construction - Lancaster Site (Base) - Los Angeles-Mojave Desert County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Operations Emissions Files

- Rail Miles Summary
- Rail Fuel Consumption
- Rail Annual GHG Emissions
- On-Road Vehicle Miles Traveled Emissions Calculations
- EMFAC2017 Output Files

Summary of Antelope Valley Line Rail Travel

Service Characteristic	Existing	Proposed							
<u>Weekday Roundtrips</u>	<u>15</u>	<u>30</u>							
			Daily Rail Travel Miles						
Daily Round Trips by Service Area			Start Point	End Point	Trip Length	Round Trip Length (mi)	Existing	Project	Change
Santa Clarita Valley	4	8	LA-US	Via Princessa	37.88	75.76	303.0	606.1	303.0
Santa Clarita Valley-SC	1	2	LA-US	CPCanyon	34.2	68.4	68.4	136.8	68.4
Antelope Valley-Lancaster	9	18	LA-US	Lancaster	76.6	153.2	1,378.8	2,757.6	1,378.8
Antelope Valley-Palmdale	1	2	LA-US	Palmdale	69.2	138.4	138.4	276.8	138.4
						Weekday Total	1,936.0	3,872.0	1,936.0
Saturday Round Trips	6	14	LA-US	Lancaster	76.6	Saturday Miles	919.2	2,144.8	1,225.6
Sunday/Holiday Round Trips	6	7	LA-US	Lancaster	76.6	Sunday/Holiday Miles	919.2	1,072.4	153.2

Rail Propulsion Fuel Consumption Calculations

	Daily Rail Travel Miles			Annual Rail Travel Miles		
	Existing	Project	Change	Existing	Project	Change
Weekday	1,936.0	3,872.0	1,936.0	483,997.9	967,995.9	483,997.9
Saturday	919.2	2,144.8	1,225.6	45,960.0	107,240.0	61,280.0
Sunday/Holiday	919.2	1,072.4	153.2	58,828.8	68,633.6	9,804.8
	Totals			588,786.7	1,143,869.5	555,082.7

Annual Miles Increase

2016-17 Fuel
 50% T4, 50% T2 Efficiency 2.75 gal/mi

Existing Fuel Eff. 2.695 gallons/mile 75% T4, 25% T2
 2028 Fuel Eff. 2.6125 gallons/mile 90% T4, 10% T2

Existing **1,586,780.3** gallons/year
 Proposed **2,988,359.0** gallons/year

Annual Fuel Increase 1,401,578.8 gallons

Rail Propulsion GHG Emissions Calculations

	Daily Rail Travel Miles			Annual Rail Travel Miles		
	Existing	Project	Change	Existing	Project	Change
Weekday	1,936.0	3,872.0	1,936.0	483,997.9	967,995.9	483,997.9
Saturday	919.2	2,144.8	1,225.6	45,960.0	107,240.0	61,280.0
Sunday/Holiday	919.2	1,072.4	153.2	58,828.8	68,633.6	9,804.8
	Totals			588,786.7	1,143,869.5	555,082.7

Annual Miles Increase

2016-17 Fuel Efficiency 50% T4, 50% T2 2.75 gal/mi

Existing Fuel Eff. 2.695 gallons/mile 75% T4, 25% T2

2028 Fuel Eff. 2.6125 gallons/mile 90% T4, 10% T2

Existing **1,586,780.3** gallons/year

Proposed **2,988,359.0** gallons/year

Annual Fuel Increase 1,401,578.8 gallons

EPA Diesel Combustion Factors (grams/gallon)	10206 gCO ₂ /gal	GWP	1
	0.8 gCH ₄ /gal		25
	0.26 gN ₂ O/gal		298

0.01030348 MTCO₂e/gal

Annual GHG Emissions Change (MTC) 14,441.1

Existing GHG 16,349.4

Proposed GHG 30,790.5

Operational Emissions Analysis - Regional On-Road Vehicle Miles Traveled Displacement

EMFAC2017 Emission Rates (grams per mile) - 2028

Speed Range (mph)	Proportion of LA County VMT	CO2	CH4	N2O
≤5	0.32%	683.719	0.0283256	0.009737
5-10	1.25%	550.790	0.0200311	0.008364
10-15	3.26%	447.558	0.0144571	0.007302
15-20	8.78%	371.321	0.0113962	0.006504
20-25	18.32%	317.196	0.0095079	0.005879
25-30	20.01%	281.311	0.0082778	0.005438
30-35	11.32%	260.530	0.0074553	0.005122
35-40	7.89%	251.823	0.0069047	0.004871
40-45	6.75%	252.237	0.0065492	0.004717
45-50	6.03%	259.283	0.0064409	0.004664
50-55	5.33%	269.599	0.0064523	0.004742
55-60	7.50%	280.288	0.0066046	0.004946
60-65	3.24%	288.752	0.0068981	0.00519
>65	0.001%	291.357	0.0071104	0.005318
		CO2	CH4	N2O

Aggregate Average Rates - All Speeds
grams CO2e/mile

297.4324 **0.0085** **0.0055**
299.2735

Daily Emissions Offset (pounds per day)

Day of Week	Daily VMT Displacement (miles)	CO2	CH4	N2O
Weekday	39,089	25631.70	0.73	0.47
Saturday	15,636	10252.68	0.29	0.19
Sunday/Holiday	11,727	7689.51	0.22	0.14

Day Of Week	Annual Frequency
Weekday	255
Saturday	51
Sunday/Holiday	58

Global Warming Potential Values

1 25 298

Annual Emissions Offset (Metric Tons CO2e per Year)

Annual VMT Displacement (miles)

11,445,259 3,425.3

EMFAC2017 Emission Rates

File Name: Los Angeles (SC) - 2028 - Annual.EF
 CT-EMFAC2017 Version: 1.0.2.27401
 Area: Los Angeles (SC)
 Analysis Year: 2028
 Season: Annual

Vehicle Category	VMT Fraction		Diesel VM Gas VMT Fraction	
	Across Category	Within Cat	Within Category	Within Category
Truck 1	0	0.527	0.473	
Truck 2	0	0.909	0.063	
Non-Truck	1	0.013	0.95	

Road Type: Major/Collector
 Silt Loading Factor: CARB 0.013 g/m2
 Precipitation Correction: None P = NA N = NA

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph	75 mph
PM2.5	0.006996	0.00445	0.002978	0.0021	0.001563	0.001228	0.001017	0.000888	0.000818	0.000794	0.000811	0.000872	0.000986	0.001067	0.001067
PM10	0.007601	0.004833	0.003234	0.00228	0.001697	0.001333	0.001104	0.000964	0.000887	0.000861	0.000879	0.000946	0.001069	0.001156	0.001156
NOx	0.087734	0.074275	0.062672	0.054825	0.049258	0.045065	0.041998	0.039903	0.038684	0.038292	0.038719	0.039995	0.04218	0.043361	0.043361
CO	1.318313	1.155891	1.023651	0.920003	0.838687	0.771249	0.714225	0.665881	0.625142	0.591463	0.564816	0.545873	0.536192	0.535078	0.535113
HC	0.148532	0.098939	0.069749	0.052031	0.041009	0.033903	0.029244	0.026224	0.024387	0.023498	0.023475	0.024371	0.026382	0.027772	0.027775
TOG	0.159648	0.106163	0.074541	0.055368	0.043505	0.035878	0.030889	0.027666	0.025717	0.024789	0.024795	0.02579	0.027988	0.029515	0.029519
ROG	0.107528	0.069528	0.046963	0.033405	0.025173	0.020001	0.016723	0.014708	0.013604	0.013231	0.013531	0.014554	0.016466	0.017849	0.017852
1,3-Butadiene	0.000802	0.000517	0.000351	0.000251	0.000189	0.00015	0.000126	0.00011	0.000102	0.000099	0.000102	0.000102	0.000125	0.000136	0.000136
Acetaldehyde	0.000812	0.000542	0.000345	0.000228	0.000169	0.000134	0.000112	0.000098	0.00009	0.000088	0.000088	0.000089	0.000097	0.000109	0.000119
Acrolein	0.000183	0.000118	0.00008	0.000057	0.000043	0.000034	0.000029	0.000025	0.000023	0.000023	0.000023	0.000023	0.000025	0.000029	0.000031
Benzene	0.003516	0.00227	0.001535	0.001093	0.000824	0.000654	0.000547	0.000481	0.000445	0.000433	0.000443	0.000479	0.000543	0.000589	0.000589
Diesel PM	0.000146	0.000125	0.000099	0.00008	0.000067	0.00006	0.000056	0.000054	0.000054	0.000057	0.000061	0.000067	0.000074	0.000077	0.000077
Ethylbenzene	0.001524	0.000982	0.000666	0.000476	0.000359	0.000285	0.000238	0.00021	0.000194	0.000189	0.000194	0.000209	0.000237	0.000258	0.000258
Formaldehyde	0.002912	0.001912	0.001252	0.000858	0.000641	0.000509	0.000425	0.000373	0.000344	0.000334	0.000342	0.000369	0.000418	0.000453	0.000452
Naphthalene	0.000108	0.000073	0.000051	0.000039	0.00003	0.000025	0.000022	0.00002	0.000018	0.000018	0.000018	0.000018	0.00002	0.000021	0.000016
POM	0.000125	0.000081	0.000054	0.000038	0.000029	0.000023	0.000019	0.000017	0.000015	0.000015	0.000015	0.000016	0.000019	0.00002	0.00002
DEOG	0.002433	0.001808	0.000902	0.000379	0.000241	0.000186	0.00015	0.000125	0.000108	0.000097	0.000091	0.000091	0.000096	0.000101	0.000101
CO2	570.91626	463.9948	379.7909	316.0338	270.3972	240.0444	222.489	215.1928	215.6685	221.7112	230.6242	239.9235	247.4256	249.8021	249.8021
N2O	0.009737	0.008364	0.007302	0.006504	0.005879	0.005438	0.005122	0.004871	0.004717	0.004664	0.004742	0.004946	0.00519	0.005318	0.005318
CH4	0.034682	0.026094	0.020887	0.01748	0.015141	0.013469	0.012239	0.01132	0.010634	0.010138	0.00981	0.009653	0.009686	0.009643	0.009644
BC	0.001754	0.001114	0.000746	0.000526	0.000392	0.000307	0.000254	0.000222	0.000204	0.000197	0.000201	0.000216	0.000244	0.000264	0.000263

EMFAC2017 Emission Rates

Fleet Average Fuel Consumption (gallons/veh-mile)

Fuel Type	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph	70 mph	75 mph
Gasoline	0.066601	0.054121	0.044265	0.036805	0.031468	0.027903	0.025834	0.025064	0.02519	0.025925	0.026857	0.02768	0.028436	0.028697	0.028697
Diesel	0.000995	0.000839	0.000689	0.000573	0.00049	0.000429	0.000389	0.000362	0.000348	0.000347	0.00036	0.000385	0.000426	0.000448	0.000448

=====
Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
HC	1.028861
TOG	1.099986
ROG	1.099986
1,3-Butadiene	0
Benzene	0.011
Ethylbenzene	0.01804
Naphthalene	0.00154
CH4	0.169591
HFC	0.009595

=====
Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002009
PM10	0.008037

=====
Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.016042
PM10	0.037431

=====
Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.005862
PM10	0.039077

=====
=END=====

EMFAC2017 Regional VMT Distribution Calculation - Non-Trucks

calendar_year	sub_area	vehicle_class	fuel	speed	vmt	Speed	Total Non-Truck	Percent of Total
							VMT by Speed	VMT by Speed
2028	Los Angeles (SC)	LDA	Gas	5	472404.884	≤5	933668.4541	0.343%
2028	Los Angeles (SC)	LDA	Gas	10	1829324.79	5-10	3438808.284	1.263%
2028	Los Angeles (SC)	LDA	Gas	15	4769852.61	10-15	8815141.475	3.239%
2028	Los Angeles (SC)	LDA	Gas	20	12868911.3	15-20	23514888.41	8.639%
2028	Los Angeles (SC)	LDA	Gas	25	26846312.8	20-25	49130318.57	18.050%
2028	Los Angeles (SC)	LDA	Gas	30	29324195.1	25-30	53904777.28	19.804%
2028	Los Angeles (SC)	LDA	Gas	35	16587914.1	30-35	31174763.57	11.453%
2028	Los Angeles (SC)	LDA	Gas	40	11555526	35-40	21977459.96	8.074%
2028	Los Angeles (SC)	LDA	Gas	45	9883384.03	40-45	18572026.67	6.823%
2028	Los Angeles (SC)	LDA	Gas	50	8823122.9	45-50	16468473.08	6.050%
2028	Los Angeles (SC)	LDA	Gas	55	7808754.96	50-55	14815373.88	5.443%
2028	Los Angeles (SC)	LDA	Gas	60	10974595	55-60	20447079.86	7.512%
2028	Los Angeles (SC)	LDA	Gas	65	4745069.01	60-65	8940372.542	3.285%
2028	Los Angeles (SC)	LDA	Gas	70	2116.63918	>65	59354.34082	0.022%
2028	Los Angeles (SC)	LDA	Dsl	5	5251.9442			
2028	Los Angeles (SC)	LDA	Dsl	10	20337.4522			
2028	Los Angeles (SC)	LDA	Dsl	15	53028.6637			
2028	Los Angeles (SC)	LDA	Dsl	20	143069.656			
2028	Los Angeles (SC)	LDA	Dsl	25	298462.911			
2028	Los Angeles (SC)	LDA	Dsl	30	326010.677			
2028	Los Angeles (SC)	LDA	Dsl	35	184415.535			
2028	Los Angeles (SC)	LDA	Dsl	40	128468.142			
2028	Los Angeles (SC)	LDA	Dsl	45	109878.164			
2028	Los Angeles (SC)	LDA	Dsl	50	98090.7495			
2028	Los Angeles (SC)	LDA	Dsl	55	86813.5507			
2028	Los Angeles (SC)	LDA	Dsl	60	122009.663			
2028	Los Angeles (SC)	LDA	Dsl	65	52753.133			
2028	Los Angeles (SC)	LDA	Dsl	70	23.5316595			
2028	Los Angeles (SC)	LDA	Elec	5	21921.2143			
2028	Los Angeles (SC)	LDA	Elec	10	84886.9736			
2028	Los Angeles (SC)	LDA	Elec	15	221337.596			
2028	Los Angeles (SC)	LDA	Elec	20	597161.828			
2028	Los Angeles (SC)	LDA	Elec	25	1245761.42			
2028	Los Angeles (SC)	LDA	Elec	30	1360743.69			
2028	Los Angeles (SC)	LDA	Elec	35	769736.372			
2028	Los Angeles (SC)	LDA	Elec	40	536216.22			
2028	Los Angeles (SC)	LDA	Elec	45	458623.074			
2028	Los Angeles (SC)	LDA	Elec	50	409423.303			
2028	Los Angeles (SC)	LDA	Elec	55	362353.136			
2028	Los Angeles (SC)	LDA	Elec	60	509259.022			
2028	Los Angeles (SC)	LDA	Elec	65	220187.552			
2028	Los Angeles (SC)	LDA	Elec	70	98.2193511			
2028	Los Angeles (SC)	LDT1	Gas	5	59883.9794			
2028	Los Angeles (SC)	LDT1	Gas	10	231892.709			
2028	Los Angeles (SC)	LDT1	Gas	15	604646.067			
2028	Los Angeles (SC)	LDT1	Gas	20	1631315.95			
2028	Los Angeles (SC)	LDT1	Gas	25	3403148.65			

EMFAC2017 Regional VMT Distribution Calculation - Non-Trucks

calendar_year	sub_area	vehicle_class	fuel	speed	vmt	Speed	Total Non-Truck VMT by Speed	Percent of Total VMT by Speed
2028	Los Angeles (SC)	LDT1	Gas	30	3717255.16			
2028	Los Angeles (SC)	LDT1	Gas	35	2102751.99			
2028	Los Angeles (SC)	LDT1	Gas	40	1464825.83			
2028	Los Angeles (SC)	LDT1	Gas	45	1252858.27			
2028	Los Angeles (SC)	LDT1	Gas	50	1118455.22			
2028	Los Angeles (SC)	LDT1	Gas	55	989869.786			
2028	Los Angeles (SC)	LDT1	Gas	60	1391184.65			
2028	Los Angeles (SC)	LDT1	Gas	65	601504.397			
2028	Los Angeles (SC)	LDT1	Gas	70	268.313858			
2028	Los Angeles (SC)	LDT2	Gas	5	173374.165			
2028	Los Angeles (SC)	LDT2	Gas	10	671368.289			
2028	Los Angeles (SC)	LDT2	Gas	15	1750551.79			
2028	Los Angeles (SC)	LDT2	Gas	20	4722933.31			
2028	Los Angeles (SC)	LDT2	Gas	25	9852686.16			
2028	Los Angeles (SC)	LDT2	Gas	30	10762077.2			
2028	Los Angeles (SC)	LDT2	Gas	35	6087819.71			
2028	Los Angeles (SC)	LDT2	Gas	40	4240916.49			
2028	Los Angeles (SC)	LDT2	Gas	45	3627234.84			
2028	Los Angeles (SC)	LDT2	Gas	50	3238115.48			
2028	Los Angeles (SC)	LDT2	Gas	55	2865839.07			
2028	Los Angeles (SC)	LDT2	Gas	60	4027712.9			
2028	Los Angeles (SC)	LDT2	Gas	65	1741456.12			
2028	Los Angeles (SC)	LDT2	Gas	70	776.813626			
2028	Los Angeles (SC)	MDV	Gas	5	104564.814			
2028	Los Angeles (SC)	MDV	Gas	10	404913.271			
2028	Los Angeles (SC)	MDV	Gas	15	1055786.61			
2028	Los Angeles (SC)	MDV	Gas	20	2848478.85			
2028	Los Angeles (SC)	MDV	Gas	25	5942317.28			
2028	Los Angeles (SC)	MDV	Gas	30	6490785.99			
2028	Los Angeles (SC)	MDV	Gas	35	3671664.32			
2028	Los Angeles (SC)	MDV	Gas	40	2557766.58			
2028	Los Angeles (SC)	MDV	Gas	45	2187645.07			
2028	Los Angeles (SC)	MDV	Gas	50	1952960.77			
2028	Los Angeles (SC)	MDV	Gas	55	1728434.74			
2028	Los Angeles (SC)	MDV	Gas	60	2429179.98			
2028	Los Angeles (SC)	MDV	Gas	65	1050300.87			
2028	Los Angeles (SC)	MDV	Gas	70	468.50909			
2028	Los Angeles (SC)	LDT1	Dsl	5	11.98856			
2028	Los Angeles (SC)	LDT1	Dsl	10	46.4240969			
2028	Los Angeles (SC)	LDT1	Dsl	15	121.047996			
2028	Los Angeles (SC)	LDT1	Dsl	20	326.583661			
2028	Los Angeles (SC)	LDT1	Dsl	25	681.298275			
2028	Los Angeles (SC)	LDT1	Dsl	30	744.181283			
2028	Los Angeles (SC)	LDT1	Dsl	35	420.963481			
2028	Los Angeles (SC)	LDT1	Dsl	40	293.252931			
2028	Los Angeles (SC)	LDT1	Dsl	45	250.817777			
2028	Los Angeles (SC)	LDT1	Dsl	50	223.910764			

EMFAC2017 Regional VMT Distribution Calculation - Non-Trucks

calendar_year	sub_area	vehicle_class	fuel	speed	vmt	Speed	Total Non-Truck VMT by Speed	Percent of Total VMT by Speed
2028	Los Angeles (SC)	LDT1	Dsl	55	198.168416			
2028	Los Angeles (SC)	LDT1	Dsl	60	278.510226			
2028	Los Angeles (SC)	LDT1	Dsl	65	120.419044			
2028	Los Angeles (SC)	LDT1	Dsl	70	0.05371548			
2028	Los Angeles (SC)	LDT2	Dsl	5	1598.90956			
2028	Los Angeles (SC)	LDT2	Dsl	10	6191.56364			
2028	Los Angeles (SC)	LDT2	Dsl	15	16144.1238			
2028	Los Angeles (SC)	LDT2	Dsl	20	43556.3351			
2028	Los Angeles (SC)	LDT2	Dsl	25	90864.4844			
2028	Los Angeles (SC)	LDT2	Dsl	30	99251.1666			
2028	Los Angeles (SC)	LDT2	Dsl	35	56143.7348			
2028	Los Angeles (SC)	LDT2	Dsl	40	39111.0286			
2028	Los Angeles (SC)	LDT2	Dsl	45	33451.4688			
2028	Los Angeles (SC)	LDT2	Dsl	50	29862.891			
2028	Los Angeles (SC)	LDT2	Dsl	55	26429.6441			
2028	Los Angeles (SC)	LDT2	Dsl	60	37144.7999			
2028	Los Angeles (SC)	LDT2	Dsl	65	16060.2408			
2028	Los Angeles (SC)	LDT2	Dsl	70	7.16401278			
2028	Los Angeles (SC)	MDV	Dsl	5	3258.67175			
2028	Los Angeles (SC)	MDV	Dsl	10	12618.771			
2028	Los Angeles (SC)	MDV	Dsl	15	32902.6741			
2028	Los Angeles (SC)	MDV	Dsl	20	88770.3732			
2028	Los Angeles (SC)	MDV	Dsl	25	185187.165			
2028	Los Angeles (SC)	MDV	Dsl	30	202279.717			
2028	Los Angeles (SC)	MDV	Dsl	35	114424.234			
2028	Los Angeles (SC)	MDV	Dsl	40	79710.5772			
2028	Los Angeles (SC)	MDV	Dsl	45	68176.0613			
2028	Los Angeles (SC)	MDV	Dsl	50	60862.3287			
2028	Los Angeles (SC)	MDV	Dsl	55	53865.1696			
2028	Los Angeles (SC)	MDV	Dsl	60	75703.2874			
2028	Los Angeles (SC)	MDV	Dsl	65	32731.7156			
2028	Los Angeles (SC)	MDV	Dsl	70	14.6006795			
2028	Los Angeles (SC)	LDT1	Elec	5	1491.48355			
2028	Los Angeles (SC)	LDT1	Elec	10	5775.57078			
2028	Los Angeles (SC)	LDT1	Elec	15	15059.4478			
2028	Los Angeles (SC)	LDT1	Elec	20	40629.9136			
2028	Los Angeles (SC)	LDT1	Elec	25	84759.5682			
2028	Los Angeles (SC)	LDT1	Elec	30	92582.774			
2028	Los Angeles (SC)	LDT1	Elec	35	52371.6032			
2028	Los Angeles (SC)	LDT1	Elec	40	36483.2742			
2028	Los Angeles (SC)	LDT1	Elec	45	31203.9634			
2028	Los Angeles (SC)	LDT1	Elec	50	27856.4916			
2028	Los Angeles (SC)	LDT1	Elec	55	24653.9144			
2028	Los Angeles (SC)	LDT1	Elec	60	34649.1505			
2028	Los Angeles (SC)	LDT1	Elec	65	14981.2007			
2028	Los Angeles (SC)	LDT1	Elec	70	6.68268393			
2028	Los Angeles (SC)	LDT2	Elec	5	3717.81734			

EMFAC2017 Regional VMT Distribution Calculation - Non-Trucks

calendar_year	sub_area	vehicle_class	fuel	speed	vmt	Speed	Total Non-Truck VMT by Speed	Percent of Total VMT by Speed
2028	Los Angeles (SC)	LDT2	Elec	10	14396.7509			
2028	Los Angeles (SC)	LDT2	Elec	15	37538.6481			
2028	Los Angeles (SC)	LDT2	Elec	20	101278.084			
2028	Los Angeles (SC)	LDT2	Elec	25	211279.965			
2028	Los Angeles (SC)	LDT2	Elec	30	230780.85			
2028	Los Angeles (SC)	LDT2	Elec	35	130546.565			
2028	Los Angeles (SC)	LDT2	Elec	40	90941.7667			
2028	Los Angeles (SC)	LDT2	Elec	45	77782.042			
2028	Los Angeles (SC)	LDT2	Elec	50	69437.8073			
2028	Los Angeles (SC)	LDT2	Elec	55	61454.7511			
2028	Los Angeles (SC)	LDT2	Elec	60	86369.8513			
2028	Los Angeles (SC)	LDT2	Elec	65	37343.6017			
2028	Los Angeles (SC)	LDT2	Elec	70	16.6579096			
2028	Los Angeles (SC)	MDV	Elec	5	2538.66895			
2028	Los Angeles (SC)	MDV	Elec	10	9830.6563			
2028	Los Angeles (SC)	MDV	Elec	15	25632.8355			
2028	Los Angeles (SC)	MDV	Elec	20	69156.5789			
2028	Los Angeles (SC)	MDV	Elec	25	144270.102			
2028	Los Angeles (SC)	MDV	Elec	30	157586.058			
2028	Los Angeles (SC)	MDV	Elec	35	89142.2252			
2028	Los Angeles (SC)	MDV	Elec	40	62098.5428			
2028	Los Angeles (SC)	MDV	Elec	45	53112.5757			
2028	Los Angeles (SC)	MDV	Elec	50	47414.8106			
2028	Los Angeles (SC)	MDV	Elec	55	41963.6723			
2028	Los Angeles (SC)	MDV	Elec	60	58976.6628			
2028	Los Angeles (SC)	MDV	Elec	65	25499.6503			
2028	Los Angeles (SC)	MDV	Elec	70	11.3746626			
2028	Los Angeles (SC)	MCY	Gas	5	4369.83524			
2028	Los Angeles (SC)	MCY	Gas	10	16921.6031			
2028	Los Angeles (SC)	MCY	Gas	15	44122.046			
2028	Los Angeles (SC)	MCY	Gas	20	119039.884			
2028	Los Angeles (SC)	MCY	Gas	25	248333.512			
2028	Los Angeles (SC)	MCY	Gas	30	271254.395			
2028	Los Angeles (SC)	MCY	Gas	35	153441.368			
2028	Los Angeles (SC)	MCY	Gas	40	106890.818			
2028	Los Angeles (SC)	MCY	Gas	45	91423.1867			
2028	Los Angeles (SC)	MCY	Gas	50	81615.569			
2028	Los Angeles (SC)	MCY	Gas	55	72232.4722			
2028	Los Angeles (SC)	MCY	Gas	60	101517.096			
2028	Los Angeles (SC)	MCY	Gas	65	43892.793			
2028	Los Angeles (SC)	MCY	Gas	70	19.579316			
2028	Los Angeles (SC)	MH	Gas	5	458.811536			
2028	Los Angeles (SC)	MH	Gas	10	1857.61376			
2028	Los Angeles (SC)	MH	Gas	15	4744.81326			
2028	Los Angeles (SC)	MH	Gas	20	11045.4198			
2028	Los Angeles (SC)	MH	Gas	25	21840.1802			
2028	Los Angeles (SC)	MH	Gas	30	25720.0393			

EMFAC2017 Regional VMT Distribution Calculation - Non-Trucks

calendar_year	sub_area	vehicle_class	fuel	speed	vmt	Speed	Total Non-Truck VMT by Speed	Percent of Total VMT by Speed
2028	Los Angeles (SC)	MH	Gas	35	18894.5957			
2028	Los Angeles (SC)	MH	Gas	40	18363.733			
2028	Los Angeles (SC)	MH	Gas	45	18844.5743			
2028	Los Angeles (SC)	MH	Gas	50	18222.3171			
2028	Los Angeles (SC)	MH	Gas	55	17477.394			
2028	Los Angeles (SC)	MH	Gas	60	22638.565			
2028	Los Angeles (SC)	MH	Gas	65	13070.2191			
2028	Los Angeles (SC)	MH	Gas	70	13.6005363			
2028	Los Angeles (SC)	MH	Dsl	5	132.850813			
2028	Los Angeles (SC)	MH	Dsl	10	518.46602			
2028	Los Angeles (SC)	MH	Dsl	15	1334.81217			
2028	Los Angeles (SC)	MH	Dsl	20	3336.43504			
2028	Los Angeles (SC)	MH	Dsl	25	6977.58543			
2028	Los Angeles (SC)	MH	Dsl	30	8899.40095			
2028	Los Angeles (SC)	MH	Dsl	35	6732.51611			
2028	Los Angeles (SC)	MH	Dsl	40	6742.53595			
2028	Los Angeles (SC)	MH	Dsl	45	7005.83725			
2028	Los Angeles (SC)	MH	Dsl	50	7092.27939			
2028	Los Angeles (SC)	MH	Dsl	55	7366.18842			
2028	Los Angeles (SC)	MH	Dsl	60	11012.1981			
2028	Los Angeles (SC)	MH	Dsl	65	6753.19907			
2028	Los Angeles (SC)	MH	Dsl	70	5.63782096			
2028	Los Angeles (MD)	LDA	Gas	5	51222.6965			
2028	Los Angeles (MD)	LDA	Gas	10	83235.4197			
2028	Los Angeles (MD)	LDA	Gas	15	118620.997			
2028	Los Angeles (MD)	LDA	Gas	20	146954.243			
2028	Los Angeles (MD)	LDA	Gas	25	356140.344			
2028	Los Angeles (MD)	LDA	Gas	30	542921.806			
2028	Los Angeles (MD)	LDA	Gas	35	747097.902			
2028	Los Angeles (MD)	LDA	Gas	40	684908.11			
2028	Los Angeles (MD)	LDA	Gas	45	436445.934			
2028	Los Angeles (MD)	LDA	Gas	50	315940.327			
2028	Los Angeles (MD)	LDA	Gas	55	434123.921			
2028	Los Angeles (MD)	LDA	Gas	60	367206.566			
2028	Los Angeles (MD)	LDA	Gas	65	220161.208			
2028	Los Angeles (MD)	LDA	Gas	70	36055.5193			
2028	Los Angeles (MD)	LDA	Dsl	5	569.772689			
2028	Los Angeles (MD)	LDA	Dsl	10	925.864356			
2028	Los Angeles (MD)	LDA	Dsl	15	1319.47377			
2028	Los Angeles (MD)	LDA	Dsl	20	1634.63699			
2028	Los Angeles (MD)	LDA	Dsl	25	3961.50643			
2028	Los Angeles (MD)	LDA	Dsl	30	6039.15917			
2028	Los Angeles (MD)	LDA	Dsl	35	8310.30012			
2028	Los Angeles (MD)	LDA	Dsl	40	7618.53558			
2028	Los Angeles (MD)	LDA	Dsl	45	4854.781			
2028	Los Angeles (MD)	LDA	Dsl	50	3514.34387			
2028	Los Angeles (MD)	LDA	Dsl	55	4828.95222			

EMFAC2017 Regional VMT Distribution Calculation - Non-Trucks

calendar_year	sub_area	vehicle_class	fuel	speed	vmt	Speed	Total Non-Truck VMT by Speed	Percent of Total VMT by Speed
2028	Los Angeles (MD)	LDA	Dsl	60	4084.6009			
2028	Los Angeles (MD)	LDA	Dsl	65	2448.95041			
2028	Los Angeles (MD)	LDA	Dsl	70	401.061474			
2028	Los Angeles (MD)	LDA	Elec	5	1721.99559			
2028	Los Angeles (MD)	LDA	Elec	10	2798.19369			
2028	Los Angeles (MD)	LDA	Elec	15	3987.77979			
2028	Los Angeles (MD)	LDA	Elec	20	4940.28187			
2028	Los Angeles (MD)	LDA	Elec	25	11972.6634			
2028	Los Angeles (MD)	LDA	Elec	30	18251.8497			
2028	Los Angeles (MD)	LDA	Elec	35	25115.8058			
2028	Los Angeles (MD)	LDA	Elec	40	23025.1203			
2028	Los Angeles (MD)	LDA	Elec	45	14672.3626			
2028	Los Angeles (MD)	LDA	Elec	50	10621.2263			
2028	Los Angeles (MD)	LDA	Elec	55	14594.3016			
2028	Los Angeles (MD)	LDA	Elec	60	12344.6857			
2028	Los Angeles (MD)	LDA	Elec	65	7401.34073			
2028	Los Angeles (MD)	LDA	Elec	70	1212.1081			
2028	Los Angeles (MD)	LDT1	Gas	5	4142.70697			
2028	Los Angeles (MD)	LDT1	Gas	10	6731.78058			
2028	Los Angeles (MD)	LDT1	Gas	15	9593.63845			
2028	Los Angeles (MD)	LDT1	Gas	20	11885.1292			
2028	Los Angeles (MD)	LDT1	Gas	25	28803.3467			
2028	Los Angeles (MD)	LDT1	Gas	30	43909.5578			
2028	Los Angeles (MD)	LDT1	Gas	35	60422.5842			
2028	Los Angeles (MD)	LDT1	Gas	40	55392.8981			
2028	Los Angeles (MD)	LDT1	Gas	45	35298.1733			
2028	Los Angeles (MD)	LDT1	Gas	50	25552.1143			
2028	Los Angeles (MD)	LDT1	Gas	55	35110.3772			
2028	Los Angeles (MD)	LDT1	Gas	60	29698.3428			
2028	Los Angeles (MD)	LDT1	Gas	65	17805.8446			
2028	Los Angeles (MD)	LDT1	Gas	70	2916.04038			
2028	Los Angeles (MD)	LDT2	Gas	5	11623.815			
2028	Los Angeles (MD)	LDT2	Gas	10	18888.3676			
2028	Los Angeles (MD)	LDT2	Gas	15	26918.3119			
2028	Los Angeles (MD)	LDT2	Gas	20	33347.8917			
2028	Los Angeles (MD)	LDT2	Gas	25	80817.875			
2028	Los Angeles (MD)	LDT2	Gas	30	123203.639			
2028	Los Angeles (MD)	LDT2	Gas	35	169536.717			
2028	Los Angeles (MD)	LDT2	Gas	40	155424.172			
2028	Los Angeles (MD)	LDT2	Gas	45	99041.385			
2028	Los Angeles (MD)	LDT2	Gas	50	71695.4039			
2028	Los Angeles (MD)	LDT2	Gas	55	98514.4574			
2028	Los Angeles (MD)	LDT2	Gas	60	83329.0999			
2028	Los Angeles (MD)	LDT2	Gas	65	49960.5317			
2028	Los Angeles (MD)	LDT2	Gas	70	8181.97235			
2028	Los Angeles (MD)	MDV	Gas	5	8077.28419			
2028	Los Angeles (MD)	MDV	Gas	10	13125.3563			

EMFAC2017 Regional VMT Distribution Calculation - Non-Trucks

calendar_year	sub_area	vehicle_class	fuel	speed	vmt	Speed	Total Non-Truck VMT by Speed	Percent of Total VMT by Speed
2028	Los Angeles (MD)	MDV	Gas	15	18705.2922			
2028	Los Angeles (MD)	MDV	Gas	20	23173.1491			
2028	Los Angeles (MD)	MDV	Gas	25	56159.6123			
2028	Los Angeles (MD)	MDV	Gas	30	85613.0977			
2028	Los Angeles (MD)	MDV	Gas	35	117809.536			
2028	Los Angeles (MD)	MDV	Gas	40	108002.855			
2028	Los Angeles (MD)	MDV	Gas	45	68822.965			
2028	Los Angeles (MD)	MDV	Gas	50	49820.4895			
2028	Los Angeles (MD)	MDV	Gas	55	68456.8078			
2028	Los Angeles (MD)	MDV	Gas	60	57904.6398			
2028	Los Angeles (MD)	MDV	Gas	65	34717.1228			
2028	Los Angeles (MD)	MDV	Gas	70	5685.57878			
2028	Los Angeles (MD)	LDT1	Dsl	5	0.52526437			
2028	Los Angeles (MD)	LDT1	Dsl	10	0.85353961			
2028	Los Angeles (MD)	LDT1	Dsl	15	1.21640186			
2028	Los Angeles (MD)	LDT1	Dsl	20	1.50694581			
2028	Los Angeles (MD)	LDT1	Dsl	25	3.6520497			
2028	Los Angeles (MD)	LDT1	Dsl	30	5.56740467			
2028	Los Angeles (MD)	LDT1	Dsl	35	7.66113336			
2028	Los Angeles (MD)	LDT1	Dsl	40	7.02340664			
2028	Los Angeles (MD)	LDT1	Dsl	45	4.4755453			
2028	Los Angeles (MD)	LDT1	Dsl	50	3.23981766			
2028	Los Angeles (MD)	LDT1	Dsl	55	4.45173416			
2028	Los Angeles (MD)	LDT1	Dsl	60	3.76552853			
2028	Los Angeles (MD)	LDT1	Dsl	65	2.25764839			
2028	Los Angeles (MD)	LDT1	Dsl	70	0.36973219			
2028	Los Angeles (MD)	LDT2	Dsl	5	97.3676712			
2028	Los Angeles (MD)	LDT2	Dsl	10	158.219686			
2028	Los Angeles (MD)	LDT2	Dsl	15	225.483057			
2028	Los Angeles (MD)	LDT2	Dsl	20	279.340866			
2028	Los Angeles (MD)	LDT2	Dsl	25	676.976386			
2028	Los Angeles (MD)	LDT2	Dsl	30	1032.0236			
2028	Los Angeles (MD)	LDT2	Dsl	35	1420.13576			
2028	Los Angeles (MD)	LDT2	Dsl	40	1301.92107			
2028	Los Angeles (MD)	LDT2	Dsl	45	829.626848			
2028	Los Angeles (MD)	LDT2	Dsl	50	600.561392			
2028	Los Angeles (MD)	LDT2	Dsl	55	825.213004			
2028	Los Angeles (MD)	LDT2	Dsl	60	698.011831			
2028	Los Angeles (MD)	LDT2	Dsl	65	418.497767			
2028	Los Angeles (MD)	LDT2	Dsl	70	68.5368438			
2028	Los Angeles (MD)	MDV	Dsl	5	248.102729			
2028	Los Angeles (MD)	MDV	Dsl	10	403.159853			
2028	Los Angeles (MD)	MDV	Dsl	15	574.553763			
2028	Los Angeles (MD)	MDV	Dsl	20	711.788938			
2028	Los Angeles (MD)	MDV	Dsl	25	1725.00468			
2028	Los Angeles (MD)	MDV	Dsl	30	2629.70111			
2028	Los Angeles (MD)	MDV	Dsl	35	3618.65035			

EMFAC2017 Regional VMT Distribution Calculation - Non-Trucks

calendar_year	sub_area	vehicle_class	fuel	speed	vmt	Speed	Total Non-Truck VMT by Speed	Percent of Total VMT by Speed
2028	Los Angeles (MD)	MDV	Dsl	40	3317.42729			
2028	Los Angeles (MD)	MDV	Dsl	45	2113.97359			
2028	Los Angeles (MD)	MDV	Dsl	50	1530.29151			
2028	Los Angeles (MD)	MDV	Dsl	55	2102.72666			
2028	Los Angeles (MD)	MDV	Dsl	60	1778.60514			
2028	Los Angeles (MD)	MDV	Dsl	65	1066.37487			
2028	Los Angeles (MD)	MDV	Dsl	70	174.638848			
2028	Los Angeles (MD)	LDT1	Elec	5	80.2539885			
2028	Los Angeles (MD)	LDT1	Elec	10	130.410441			
2028	Los Angeles (MD)	LDT1	Elec	15	185.851366			
2028	Los Angeles (MD)	LDT1	Elec	20	230.242938			
2028	Los Angeles (MD)	LDT1	Elec	25	557.988647			
2028	Los Angeles (MD)	LDT1	Elec	30	850.631523			
2028	Los Angeles (MD)	LDT1	Elec	35	1170.52773			
2028	Los Angeles (MD)	LDT1	Elec	40	1073.09086			
2028	Los Angeles (MD)	LDT1	Elec	45	683.808729			
2028	Los Angeles (MD)	LDT1	Elec	50	495.004619			
2028	Los Angeles (MD)	LDT1	Elec	55	680.170678			
2028	Los Angeles (MD)	LDT1	Elec	60	575.326828			
2028	Los Angeles (MD)	LDT1	Elec	65	344.941135			
2028	Los Angeles (MD)	LDT1	Elec	70	56.4905682			
2028	Los Angeles (MD)	LDT2	Elec	5	200.80709			
2028	Los Angeles (MD)	LDT2	Elec	10	326.305789			
2028	Los Angeles (MD)	LDT2	Elec	15	465.027005			
2028	Los Angeles (MD)	LDT2	Elec	20	576.10114			
2028	Los Angeles (MD)	LDT2	Elec	25	1396.16832			
2028	Los Angeles (MD)	LDT2	Elec	30	2128.40313			
2028	Los Angeles (MD)	LDT2	Elec	35	2928.82971			
2028	Los Angeles (MD)	LDT2	Elec	40	2685.02859			
2028	Los Angeles (MD)	LDT2	Elec	45	1710.98837			
2028	Los Angeles (MD)	LDT2	Elec	50	1238.57317			
2028	Los Angeles (MD)	LDT2	Elec	55	1701.88544			
2028	Los Angeles (MD)	LDT2	Elec	60	1439.55096			
2028	Los Angeles (MD)	LDT2	Elec	65	863.092622			
2028	Los Angeles (MD)	LDT2	Elec	70	141.347574			
2028	Los Angeles (MD)	MDV	Elec	5	139.306297			
2028	Los Angeles (MD)	MDV	Elec	10	226.368756			
2028	Los Angeles (MD)	MDV	Elec	15	322.604098			
2028	Los Angeles (MD)	MDV	Elec	20	399.659776			
2028	Los Angeles (MD)	MDV	Elec	25	968.566592			
2028	Los Angeles (MD)	MDV	Elec	30	1476.54129			
2028	Los Angeles (MD)	MDV	Elec	35	2031.82279			
2028	Los Angeles (MD)	MDV	Elec	40	1862.69016			
2028	Los Angeles (MD)	MDV	Elec	45	1186.96732			
2028	Los Angeles (MD)	MDV	Elec	50	859.2378			
2028	Los Angeles (MD)	MDV	Elec	55	1180.65233			
2028	Los Angeles (MD)	MDV	Elec	60	998.662515			

EMFAC2017 Regional VMT Distribution Calculation - Non-Trucks

calendar_year	sub_area	vehicle_class	fuel	speed	vmt	Speed	Total Non-Truck VMT by Speed	Percent of Total VMT by Speed
2028	Los Angeles (MD)	MDV	Elec	65	598.754941			
2028	Los Angeles (MD)	MDV	Elec	70	98.0573305			
2028	Los Angeles (MD)	MCY	Gas	5	548.696749			
2028	Los Angeles (MD)	MCY	Gas	10	891.616556			
2028	Los Angeles (MD)	MCY	Gas	15	1270.66632			
2028	Los Angeles (MD)	MCY	Gas	20	1574.17163			
2028	Los Angeles (MD)	MCY	Gas	25	3814.96998			
2028	Los Angeles (MD)	MCY	Gas	30	5815.77016			
2028	Los Angeles (MD)	MCY	Gas	35	8002.90142			
2028	Los Angeles (MD)	MCY	Gas	40	7336.72531			
2028	Los Angeles (MD)	MCY	Gas	45	4675.20224			
2028	Los Angeles (MD)	MCY	Gas	50	3384.348			
2028	Los Angeles (MD)	MCY	Gas	55	4650.32887			
2028	Los Angeles (MD)	MCY	Gas	60	3933.51117			
2028	Los Angeles (MD)	MCY	Gas	65	2358.36353			
2028	Los Angeles (MD)	MCY	Gas	70	386.226177			
2028	Los Angeles (MD)	MH	Gas	5	11.4793352			
2028	Los Angeles (MD)	MH	Gas	10	66.8027968			
2028	Los Angeles (MD)	MH	Gas	15	112.211377			
2028	Los Angeles (MD)	MH	Gas	20	128.206488			
2028	Los Angeles (MD)	MH	Gas	25	322.157243			
2028	Los Angeles (MD)	MH	Gas	30	538.074803			
2028	Los Angeles (MD)	MH	Gas	35	630.286695			
2028	Los Angeles (MD)	MH	Gas	40	813.679479			
2028	Los Angeles (MD)	MH	Gas	45	560.889546			
2028	Los Angeles (MD)	MH	Gas	50	324.878237			
2028	Los Angeles (MD)	MH	Gas	55	631.363023			
2028	Los Angeles (MD)	MH	Gas	60	602.903867			
2028	Los Angeles (MD)	MH	Gas	65	336.651711			
2028	Los Angeles (MD)	MH	Gas	70	85.9516765			
2028	Los Angeles (MD)	MH	Dsl	5	3.60589734			
2028	Los Angeles (MD)	MH	Dsl	10	18.6553183			
2028	Los Angeles (MD)	MH	Dsl	15	34.5916588			
2028	Los Angeles (MD)	MH	Dsl	20	41.5066381			
2028	Los Angeles (MD)	MH	Dsl	25	114.667142			
2028	Los Angeles (MD)	MH	Dsl	30	195.096532			
2028	Los Angeles (MD)	MH	Dsl	35	240.032904			
2028	Los Angeles (MD)	MH	Dsl	40	335.932801			
2028	Los Angeles (MD)	MH	Dsl	45	251.158121			
2028	Los Angeles (MD)	MH	Dsl	50	136.216038			
2028	Los Angeles (MD)	MH	Dsl	55	261.65896			
2028	Los Angeles (MD)	MH	Dsl	60	250.261666			
2028	Los Angeles (MD)	MH	Dsl	65	164.494153			
2028	Los Angeles (MD)	MH	Dsl	70	43.063609			