

ATTACHMENT 4

***REVISED AIR QUALITY TABLES
(APPENDIX M OF DRAFT SEIR)***

EMISSIONS SUMMARY TABLES

**Table 1
Construction and Operational Emissions Summary
Project 1 - Residential Heavy
Point Molate, Richmond, CA**

Point Molate Project, Residential-Heavy, Full Buildout (2024)													
Construction Emissions													
Source Category ¹	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂ e
	(lbs/day)						(tons/year)						
Project Construction ^{2,3}	15	28	44	0.18	0.24	0.22	2.8	5.2	8.1	0.033	0.043	0.041	3,068
WWTP Construction ^{2,4}	0.17	1.9	6.6	0.017	0.017	0.017	5.0E-04	0.0056	0.020	5.0E-05	5.0E-05	5.0E-05	4.4
Total⁵	15	30	51	0.20	0.26	0.24	2.8	5.2	8.1	0.033	0.043	0.041	3,073
Total (without on-site WWTP)⁵	15	28	44	0.18	0.24	0.22	2.8	5.2	8.1	0.033	0.043	0.041	3,068
BAAQMD Emissions Threshold	54	54	-	-	82	54	-	-	-	-	-	-	-
Above Threshold?	No	No	N/A	N/A	No	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Unmitigated Operational Emissions													
Area ⁶	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂ e
	(lbs/day)						(tons/year)						
Energy - Electricity ^{7,8}	0	0	0	0	0	0	0	0	0	0	0	0	725
Energy - Natural Gas ⁷	0.84	7.2	3.5	0.046	0.58	0.58	0.15	1.31	0.63	0.01	0.11	0.11	1,517
Mobile ⁹	16	34	167	0.50	29	8.6	2.9	6.1	31	0.091	5.4	1.6	8,394
Stationary (with on-site WWTP) ¹⁰	0.19	0.50	3.3	0.0073	0.013	0.013	0.035	0.09	0.60	0.0013	0.0024	0.0024	109
Waste ¹¹	0	0	0	0	0	0	0	0	0	0	0	0	2,318
Water ³	0	0	0	0	0	0	0	0	0	0	0	0	280
Ferry ¹²	3.3	23	14	0.015	0.83	0.83	0.61	4.2	2.6	0.0028	0.15	0.15	477
WWTP ¹³	0.29	0.20	0.6	0.0022	0.11	0.034	0.054	0.036	0.11	4.0E-04	0.020	0.0062	176
Total (with on-site WWTP)⁵	65	65	189	0.57	31	10	12	12	35	0.10	5.6	1.8	14,147
Above Threshold with on-site WWTP?	Yes	Yes	N/A	N/A	No	No	Yes	Yes	N/A	N/A	No	No	N/A
Water (without reclaimed outdoor water)	0	0	0	0	0	0	0	0	0	0	0	0	291
Stationary (without on-site WWTP) ¹⁴	0.17	0.46	3.0	0.0066	0.012	0.012	0.031	0.08	0.54	0.0012	0.0021	0.0021	98
Total (without on-site WWTP)⁵	65	65	188	0.57	31	10	12	12	34	0.10	5.6	1.8	13,971
Above Threshold without on-site WWTP?	Yes	Yes	N/A	N/A	No	No	Yes	Yes	N/A	N/A	No	No	N/A
BAAQMD Emissions Threshold	54	54	-	-	82	54	10	10	-	-	15	10	-
Mitigated Operational Emissions													
Source Category	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂ e
	(lbs/day)						(tons/year)						
Area ¹⁵	37	0.71	0.31	0.0045	0.058	0.058	6.7	0.13	0.056	8.3E-04	0.011	0.011	151
Energy - Electricity ^{7,16,17}	0	0	0	0	0	0	0	0	0	0	0	0	1,177
Energy - Natural Gas ⁷	0.27	2.3	1.4	0.015	0.19	0.19	0.05	0.4	0.25	0.0027	0.03	0.03	488
Mobile ^{9,18}	14	28	141	0.42	26	7.5	2.5	5.2	26	0.076	4.7	1.4	7,067
Stationary (with on-site WWTP) ¹⁰	0.19	0.50	3.3	0.0073	0.013	0.013	0.035	0.09	0.60	0.0013	0.0024	0.0024	109
Waste ¹⁹	0	0	0	0	0	0	0	0	0	0	0	0	1,159
Water ^{3,20}	0	0	0	0	0	0	0	0	0	0	0	0	227
Ferry ¹²	0.78	14	14	0.015	0.17	0.17	0.14	2.6	2.6	0.0028	0.030	0.030	477
WWTP ¹³	0.29	0.20	0.6	0.0022	0.11	0.034	0.054	0.036	0.11	4.0E-04	0.020	0.0062	176
Total (with on-site WWTP)⁵	52	47	160	0.46	26	7.9	9.5	8.5	29	0.08	4.8	1.4	11,031
Above Threshold with on-site WWTP?	No	No	N/A	N/A	No	No	No	No	N/A	N/A	No	No	N/A
Water (without reclaimed outdoor water)	0	0	0	0	0	0	0	0	0	0	0	0	238
Stationary (without on-site WWTP) ¹⁴	0.17	0.46	3.0	0.0066	0.012	0.012	0.031	0.08	0.54	0.0012	0.0021	0.0021	98
Total (without on-site WWTP)⁵	52	46	160	0.46	26	7.9	9.4	8.5	29	0.08	4.7	1.4	10,855
Above Threshold without on-site WWTP?	No	No	N/A	N/A	No	No	No	No	N/A	N/A	No	No	N/A
BAAQMD Emissions Threshold	54	54	-	-	82	54	10	10	-	-	15	10	-
Reductions													
Mitigation Measure	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂ e
	(lbs/day)						(tons/year)						
Area - Super-compliant VOC Paints (Interior/Exterior)	8.1	0	0	0	0	0	1.5	0	0	0	0	0	0
Energy - Energy Efficient Appliances	0	0	0	0	0	0	0	0	0	0	0	0	14
Energy - Natural Gas-powered Water and Space Heating replaced with Electric	0.57	4.8	2.1	0.031	0.39	0.39	0.10	0.88	0.38	0.0056	0.071	0.071	563
Mobile - TDM	2.1	4.4	22	0.065	3.8	1.1	0.38	0.79	4.0	0.012	0.70	0.20	1,091
Mobile - EV Chargers	0.25	0.67	5.0	0.015	0.011	0.010	0.045	0.12	0.91	0.0028	0.0019	0.0018	236
Waste - 50% Waste Reduction	0	0	0	0	0	0	0	0	0	0	0	0	1,159
Water - Low Flow Faucets & Toilets	0	0	0	0	0	0	0	0	0	0	0	0	53
Ferry - Tier 4 Ferry Engines	2.5	8.9	0	0	0.66	0.66	0.47	1.6	0	0	0.12	0.12	0
Total⁵	14	19	29	0.111	4.9	2.2	2.5	3.4	5.3	0.020	0.89	0.40	3,116

Table 1 Notes:

1. Land use types for the residential heavy scenario are summarized in Table A1.
2. Construction emissions for Project and WWTP, as well as operational emissions from Area, Energy, Mobile, Stationary, Waste and Water source categories are estimated using CalEEMod 2016.3.2. Construction emissions also conservatively include emissions from the Bay Trail construction within the Project site even though construction of the Bay Trail has already been approved.
3. Project construction emissions in lbs/day are calculated by dividing the total emissions (in tons) by the actual number of project construction days (2,859 days). Construction emissions were conservatively estimated assuming soil exported from the Project site will be hauled by trucks. The Project may also export soil using barges (pulled by tug boats). A comparison of emissions from haul trucks and tug boats are provided in Table A3, showing total emissions from tug boats would be lower than haul trucks.
4. WWTP construction emissions in lbs/day are calculated by dividing the total-emissions (in tons) by the actual number of treatment plant construction days (6 days).
5. Sum totals may not add up exactly due to rounding.
6. Area emissions assume that 600 natural gas fireplaces will be installed with the Project, and that landscaping will be required for 10 acres of city park, as provided by the Project Sponsor. The consumer product VOC emission factor is specific to Contra Costa County for 2017. The emission factor is determined based on the following methodology - first, a reduction efficiency for VOC emissions for Contra Costa County was calculated based on the percent difference for Contra Costa County relative to the 2008 VOC per capita emission factor for the entire state; the 2017 county specific emission factor was then calculated by applying this reduction to the 2017 statewide VOC emission factor, assuming that building square footage roughly scales with population and the percent reduction per capita stays the same (as in 2008). Further details regarding VOC emission factors can be found in Table A13.
7. Energy and Natural Gas usage for unmitigated emissions incorporate the 2019 Title 24 standards as a Project design feature. This includes the installation of solar on all single family and low-rise units, equivalent to offset the expected annual electricity usage. The Project also assumes, as a Project design feature, that 25% of all residential units will have no natural gas usage (75% will retain usage) and these units are assumed to be electrified (estimated natural gas usage was converted to electricity assuming an equivalent MMBTU conversion). Historical energy use rates are utilized in emission calculations for all historical buildings. Further details on operational energy use rates, including CalEEMod energy intensity inputs, can be found in Table A14.
8. CalEEMod energy intensity factors for CO₂, CH₄, and N₂O are estimated from Pacific Gas & Electric Renewable Portfolio Standard (RPS) projections for the first operational year (partial buildout in 2024). For specifics regarding RPS projection estimates, see Table EF1.
9. Vehicle emissions estimated from CalEEMod are based on mobile trip rate inputs provided in the Project's Transportation Impact Analysis (TIA). Trip rates provided by the Project's TIA already account for a 20% internal trip reduction and a 10% reduction in trips due to TDM measures. Pass-by trips for retail and restaurant land uses in CalEEMod were set to zero and re-assigned to primary and diverted trips since the TIA already accounts for a reduction in pass-by trips for these two land use types. Vehicle trip rates for the residential heavy scenario are summarized in Table A4. For paved road dust silt loading factors, Stationary source emissions are shown in Table A10. Stationary sources for the case with an on-site wastewater treatment plant include two lift pumps and one emergency generator.
10. Solid waste generation rates are based on CalRecycle waste generation factors of 12.23 pounds per household per day for residences and 5 pounds per 1,000 sq. ft. per day for commercial, retail and restaurant space, as provided in the Project Description. For city park and ferry terminal land uses, CalEEMod default waste generation rates were assumed. Inputs used for CalEEMod solid waste generation rates are shown in Table A16.
11. Unmitigated ferry emissions are estimated using Tier 2 emission factors for all pollutants. Mitigated ferry emissions assume Tier 4 engine emission factors for ROG, NO_x, CO and PM. See Table A6 for additional details.
12. Operational emissions for the WWTP are estimated using CalEEMod, in addition to outside data sources. The WWTP system is defined as a 'General Light Industry' land use type in CalEEMod. However, the WWTP is not expected to have any area emissions from Consumer products and architectural coating; thus this value in the CalEEMod output table is not included here. Mobile emissions from brine trucks are estimated using EMFAC 2017 emission factors for HHDT, as shown in Table A7. VOC emissions from the WWTP are estimated using MDAQMD's default emission factor for activated sludge treatment systems, as shown in Table A8. Emissions from hauling sewage with trucks is included in Table A9. No mitigation measures are applied to WWTP emissions.
13. Stationary source emissions are shown in Table A10. Stationary sources for the scenario without an on-site wastewater treatment plant include one additional offsite lift pump, in addition to the planned Project generators.
14. Mitigated area emissions are estimated assuming the use of "super-compliant" VOC architectural coating for residential and non-residential interior and exterior areas. The VOC emission factors meet the more stringent limits in South Coast Air Quality Management District Rule 1113 (10 g/L).
15. Mitigated electricity emissions are higher than unmitigated energy emissions as it reflects switching from natural gas-powered water and space heaters to electric-powered heaters throughout the Project. Any additional electricity consumed as a result of installing electric water and space heaters is assumed to come from the PG&E utility grid. Further details regarding this mitigation measure are presented in Table A11.
16. Additional mitigation of GHG emissions from electricity use is estimated by assuming energy-efficient appliances (Dishwashers, Clothes Washers, Fans and Refrigerators) for residential units and quality restaurants. CalEEMod default efficiency inputs are used for all appliances.
17. Mitigated mobile emissions are estimated by applying additional TDM measures which would lead to a 13% reduction in trip generation (for a total of 23% reduction due to TDM), as provided by the Project Sponsor. Mitigation measures to install Level 2 equivalent Residential EV Chargers in single family units and Commercial EV Chargers consistent with CalGreen Tier 1 standards would lead to further reduction in mobile emissions. Calculations of GHG and CAP emission reductions associated with the EV Chargers are provided Tables M1 - M4.
18. Mitigated waste emissions are estimated by assuming that the Project will institute recycling and composting services which would lead to a 50% reduction in solid waste.
19. Mitigated water use emissions are estimated by assuming that the Project will install low-flow bathroom faucets, low-flow kitchen faucets, low-flow toilets and low-flow showers. CalEEMod default efficiency inputs are used for all appliances.

Abbreviations:

BAAQMD - Bay Area Air Quality Management District	HHDT - Heavy Heavy Duty Trucks	NO _x - oxides of nitrogen	SO ₂ - Sulfur dioxide
CalEEMod - California Emissions Estimator Model	lbs - pounds	PM - Particulate Matter	WWTP - Waste Water Treatment Plant
CO - Carbon Monoxide	MDAQMD - Mojave Desert Air Quality Management District		
CO _{2e} - carbon dioxide equivalents	MT - Metric Tons	ROG - reactive organic gases	

References:

California Air Resources Board Non-road Diesel Engine Certification Tier Chart. Available online at: <https://ww2.arb.ca.gov/resources/documents/non-road-diesel-engine-certification-tier-chart>

CalEEMod® 2016.3.2 Available Online at: <http://www.caleemod.com>

Mojave Desert Air Quality Management District. Emissions Inventory Program. Available online at: <http://www.mdaqmd.ca.gov/home/showdocument?id=790>

South Coast Air Quality Management District. Super-Compliant Architectural Coatings. Available online at: <http://www.aqmd.gov/home/rulescompliance/compliance/vocs/architectural-coatings/super-compliant-coatings>

**Table 2
Construction and Operational Emissions Summary
Project 2 - Commercial Heavy
Point Molate, Richmond, CA**

Point Molate Project, Commercial-Heavy, Full Buildout (2024)													
Construction Emissions													
Source Category ¹	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂ e
	(lbs/day)						(tons/year)						
Project Construction ^{2,3}	13	29	41	0.17	0.23	0.22	2.4	5.2	7.5	0.031	0.042	0.040	2,885
WWTP Construction ^{2,4}	0.17	1.9	6.6	0.017	0.017	0.017	5.0E-04	0.0056	0.020	5.0E-05	5.0E-05	5.0E-05	4.4
Total⁵	13	30	48	0.19	0.25	0.23	2.4	5.2	7.6	0.031	0.042	0.040	2,890
Total (without on-site WWTP)	13	29	41	0.17	0.23	0.22	2.4	5.2	7.5	0.031	0.042	0.040	2,885
BAAQMD Emissions Threshold	54	54	-	-	82	54	-	-	-	-	-	-	-
Above Threshold?	No	No	N/A	N/A	No	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Unmitigated Operational Emissions													
Source Category	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂ e
	(lbs/day)						(tons/year)						
Area ⁶	41	0.71	0.31	0.0045	0.058	0.058	7.4	0.13	0.056	8.3E-04	0.011	0.011	151
Energy - Electricity ^{7,8}	0	0	0	0	0	0	0	0	0	0	0	0	1,134
Energy - Natural Gas ⁷	1.0	9.1	5.6	0.056	0.71	0.71	0.19	1.7	1.0	0.010	0.13	0.13	1,873
Mobile ⁹	16	33	163	0.49	29	8.4	2.8	6.0	30	0.089	5.2	1.5	8,220
Stationary (with on-site WWTP) ¹⁰	0.19	0.50	3.3	0.0073	0.013	0.013	0.035	0.09	0.60	0.0013	0.0024	0.0024	109
Waste ¹¹	0	0	0	0	0	0	0	0	0	0	0	0	1,710
Water ⁸	0	0	0	0	0	0	0	0	0	0	0	0	390
Ferry ¹²	3.3	23	14	0.015	0.83	0.83	0.61	4.2	2.6	0.0028	0.15	0.15	477
WWTP ¹³	0.29	0.20	0.6	0.0022	0.11	0.034	0.054	0.036	0.11	4.0E-04	0.020	0.0062	176
Total (with on-site WWTP)⁵	61	66	187	0.57	30	10	11	12	34	0.10	5.6	1.8	14,239
Above Threshold with on-site WWTP?	Yes	Yes	N/A	N/A	No	No	Yes	Yes	N/A	N/A	No	No	N/A
Water (without reclaimed outdoor water)	0	0	0	0	0	0	0	0	0	0	0	0	405
Stationary (without on-site WWTP) ¹⁴	0.17	0.46	3.0	0.0066	0.012	0.012	0.031	0.08	0.54	0.0012	0.0021	0.0021	98
Total (without on-site WWTP)⁵	61	66	186	0.57	30	10.0	11.05	12.07	33.9	0.1040	5.54	1.830	14,067
Above Threshold without on-site WWTP?	Yes	Yes	N/A	N/A	No	No	Yes	Yes	N/A	N/A	No	No	N/A
BAAQMD Emissions Threshold	54	54	-	-	82	54	10	10	-	-	15	10	-
Mitigated Operational Emissions													
Source Category	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂ e
	(lbs/day)						(tons/year)						
Area ¹⁵	34	0.71	0.31	0.0045	0.058	0.058	6.1	0.13	0.056	8.3E-04	0.011	0.011	151
Energy - Electricity ^{7,16,17}	0	0	0	0	0	0	0	0	0	0	0	0	1,490
Energy - Natural Gas ⁷	0.2	2.2	1.4	0.013	0.17	0.17	0.05	0.4	0.25	0.0025	0.031	0.031	448
Mobile ^{9,18}	13	27	127	0.38	25	7.3	2.3	4.9	23	0.069	4.6	1.3	6,488
Stationary (with on-site WWTP) ¹⁰	0.19	0.50	3.3	0.0073	0.013	0.013	0.035	0.09	0.60	0.0013	0.0024	0.0024	109
Waste ¹⁹	0	0	0	0	0	0	0	0	0	0	0	0	855
Water ^{8,20}	0	0	0	0	0	0	0	0	0	0	0	0	317
Ferry ¹²	0.78	14	14	0.015	0.17	0.17	0.14	2.6	2.6	0.0028	0.030	0.030	477
WWTP ¹³	0.29	0.20	0.6	0.0022	0.11	0.034	0.054	0.036	0.11	4.0E-04	0.020	0.0062	176
Total (with on-site WWTP)⁵	48	45	147	0.42	25	7.7	8.7	8.2	27	0.08	4.7	1.4	10,511
Above Threshold with on-site WWTP?	No	No	N/A	N/A	No	No	No	No	N/A	N/A	No	No	N/A
Water (without reclaimed outdoor water)	0	0	0	0	0	0	0	0	0	0	0	0	332
Stationary (without on-site WWTP) ¹⁴	0.17	0.46	3.0	0.0066	0.012	0.012	0.031	0.08	0.54	0.0012	0.0021	0.0021	98
Total (without on-site WWTP)⁵	48	45	146	0.42	25	8	8.7	8.2	27	0.08	4.6	1.4	10,339
Above Threshold without on-site WWTP?	No	No	N/A	N/A	No	No	No	No	N/A	N/A	No	No	N/A
BAAQMD Emissions Threshold	54	54	-	-	82	54	10	10	-	-	15	10	-
Reductions													
Mitigation Measure	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO ₂ e
	(lbs/day)						(tons/year)						
Area - Super-compliant VOC Paints (Interior/Exterior)	7.0	0	0	0	0	0	1.3	0	0	0	0	0	0
Energy - Energy Efficient Appliances	0	0	0	0	0	0	0	0	0	0	0	0	6.2
Energy - Natural Gas-powered Water and Space Heating replaced with Electric	0.8	6.9	4	0.043	0.5	0.5	0.143	1	1	0.008	0.099	0.099	1062.0
Mobile - TDM	2.0	4.2	21	0.063	3.7	1.1	0.37	0.77	3.9	0.012	0.68	0.20	1,069
Mobile - EV Chargers	0.65	1.3	14	0.043	0.027	0.025	0.12	0.25	2.6	0.0079	0.0050	0.0046	663
Waste - 50% Waste Reduction	0	0	0	0	0	0	0	0	0	0	0	0	855
Water - Low Flow Faucets & Toilets	0	0	0	0	0	0	0	0	0	0	0	0	73
Ferry - Tier 4 Ferry Engines	2.5	8.9	0	0	0.66	0.66	0.47	1.6	0	0	0.12	0.12	0
Total⁵	13	21	40	0.15	5.0	2.3	2.4	3.9	7.2	0.027	0.91	0.42	3,728

Table 2 Notes:

1. Land use types for the commercial heavy scenario are summarized in Table A2.
2. Construction emissions for Project and WWTP, as well as operational emissions from Area, Energy, Mobile, Stationary, Waste and Water source categories are estimated using CalEEMod 2016.3.2. Construction emissions also conservatively include emissions from the Bay Trail construction within the Project site even though construction of the Bay Trail has already been approved.
3. Project construction emissions in lbs/day are calculated by dividing the total emissions (in tons) by the actual number of project construction days (2,859 days). Construction emissions were conservatively estimated assuming soil exported from the Project site will be hauled by trucks. The Project may also export soil using barges (pulled by tug boats). A comparison of emissions from haul trucks and tug boats are provided in Table A3, showing total emissions from tug boats would be lower than haul trucks.
4. WWTP construction emissions in lbs/day are calculated by dividing the total-emissions (in tons) by the actual number of treatment plant construction days (6 days).
5. Sum totals may not add up exactly due to rounding.
6. Area emissions assume that 600 natural gas fireplaces will be installed with the project, and that landscaping will be required for 10 acres of city park, as provided by the Project Sponsor. The consumer product VOC emission factor is specific to Contra Costa County for 2017. The emission factor is determined based on the following methodology - first, a reduction efficiency for VOC emissions for Contra Costa County was calculated based on the percent difference for Contra Costa County relative to the 2008 VOC per capita emission factor for the entire state; the 2017 county specific emission factor was then calculated by applying this reduction to the 2017 statewide VOC emission factor, assuming that building square footage roughly scales with population and the percent reduction per capita stays the same (as in 2008). Further details regarding VOC emission factors can be found in Table A13.
7. Energy and Natural Gas usage for unmitigated and mitigated emissions incorporate the 2019 Title 24 standards as a Project design feature. This includes the installation of solar on all single family and low-rise units, equivalent to offset the expected annual electricity usage. The Project also assumes, as a Project design feature, that 25% of all residential units will have no natural gas usage (75% will retain usage) and these units are assumed to be electrified (estimated natural gas usage was converted to electricity assuming an equivalent MMBTU conversion). Historical energy use rates are utilized in emission calculations for all historical buildings. Further details on operational energy use rates, including CalEEMod energy intensity inputs, can be found in Table A15.
8. CalEEMod energy intensity factors for CO₂, CH₄, and N₂O are estimated from Pacific Gas & Electric Renewable Portfolio Standard (RPS) projections for the first operational year (partial buildout in 2024). For specifics regarding RPS projection estimates, see Table EF1.
9. Vehicle emissions estimated from CalEEMod are based on mobile trip rate inputs provided in the Project's Transportation Impact Analysis (TIA). Trip rates provided by the Project's TIA already account for a 20% internal trip reduction and a 10% reduction in trips due to TDM measures. Pass-by trips for retail and restaurant land uses in CalEEMod were set to zero and re-assigned to primary and diverted trips since the TIA already accounts for a reduction in pass-by trips for these two land use types. Vehicle trip rates for the residential heavy scenario are summarized in Table A5. For paved road dust silt loading factors, see Table A6.
10. Stationary source emissions are shown in Table A10. Stationary sources for the case with an on-site wastewater treatment plant include two lift pumps and one emergency generator.
11. Solid waste generation rates are based on CalRecycle waste generation factors of 12.23 pounds per household per day for residences and 5 pounds per 1,000 sq. ft. per day for commercial, retail and restaurant space, as provided in the Project Description. For city park and ferry terminal land uses, CalEEMod default waste generation rates were assumed. Inputs used for CalEEMod solid waste generation rates are shown in Table A16.
12. Unmitigated ferry emissions are estimated using Tier 2 emission factors for all pollutants. Mitigated ferry emissions assume Tier 4 engine emission factors for ROG, NO_x, CO and PM. See Table A6 for additional details.
13. Operational emissions for the WWTP are estimated using CalEEMod, in addition to outside data sources. The WWTP system is defined as a 'General Light Industry' land use type in CalEEMod. However, the WWTP is not expected to have any area emissions from Consumer products and architectural coating; thus this value in the CalEEMod output table is not included here. Mobile emissions from brine trucks are estimated using EMFAC 2017 emission factors for HHDT, as shown in Table A7. VOC emissions from the WWTP are estimated using MDAQMD's default emission factor for activated sludge treatment systems, as shown in Table A8. Emissions from hauling sewage with trucks is included in Table A9. No mitigation measures are applied to WWTP emissions.
14. Stationary source emissions are shown in Table A10. Stationary sources for the scenario without an on-site wastewater treatment plant include one additional offsite lift pump, in addition to the planned Project generators.
15. Mitigated area emissions are estimated assuming the use of "super-compliant" VOC architectural coating for residential and non-residential interior and exterior areas. The VOC emission factors meet the more stringent limits in South Coast Air Quality Management District Rule 1113 (10 g/L).
16. Mitigated electricity emissions are higher than unmitigated energy emissions as it reflects switching from natural gas-powered water and space heaters to electric-powered heaters throughout the Project. Any additional electricity consumed as a result of installing electric water and space heaters is assumed to come from the PG&E utility grid. Further details regarding this mitigation measure are presented in Table A11.
17. Additional mitigation of GHG emissions from electricity use is estimated by assuming energy-efficient appliances (Dishwashers, Clothes Washers, Fans and Refrigerators) for residential units and quality restaurants. CalEEMod default efficiency inputs are used for all appliances.
18. Mitigated mobile emissions are estimated by applying additional TDM measures which would lead to a 13% reduction in trip generation (for a total of 23% reduction due to TDM), as provided by the Project Sponsor. Mitigation measures to install Level 2 equivalent Residential EV Chargers in single family units and Commercial EV Chargers consistent with CalGreen Tier 1 standards would lead to further reduction in mobile emissions. Calculations of GHG and CAP emission reductions associated with the EV Chargers are provided Tables M1 - M4.
19. Mitigated waste emissions are estimated by assuming that the Project will institute recycling and composting services which would lead to a 50% reduction in solid waste.
20. Mitigated water use emissions are estimated by assuming that the Project will install low-flow bathroom faucets, low-flow kitchen faucets, low-flow toilets and low-flow showers. CalEEMod default efficiency inputs are used for all appliances.

Abbreviations:

BAAQMD - Bay Area Air Quality Management District	HHDT - Heavy Heavy Duty Trucks	NO _x - oxides of nitrogen	SO ₂ - Sulfur dioxide
CalEEMod - California Emissions Estimator MODel	lbs - pounds	PM - Particulate Matter	WWTP - Waste Water Treatment Plant
CO - Carbon Monoxide	MDAQMD - Mojave Desert Air Quality Management District		
CO ₂ e - carbon dioxide equivalents	MT - Metric Tons	ROG - reactive organic gases	

References:

- California Air Resources Board Non-road Diesel Engine Certification Tier Chart. Available online at: <https://ww2.arb.ca.gov/resources/documents/non-road-diesel-engine-certification-tier-chart>
- CalEEMod@ 2016.3.2 Available Online at: <http://www.caleemod.com>
- Mojave Desert Air Quality Management District. Emissions Inventory Program. Available online at: <http://www.mdaqmd.ca.gov/home/showdocument?id=790>
- South Coast Air Quality Management District. Super-Compliant Architectural Coatings. Available online at: <http://www.aqmd.gov/home/rulescompliance/compliance/vocs/architectural-coatings/super-compliant-coatings>

Table A1
Project Land Uses - Residential Heavy (Project 1)
Point Molate
Richmond, CA

Land Use Type¹	Amount (New)	Amount (Existing or Historical)	Unit	Lot Size (acre)
Residential (Planning Area A-D): Low-Rise, medium density	286	--	DU	80.00
Residential: (Planning Area F-H): Low-Rise, medium density	350	--	DU	
Residential (Planning Area E): Mid-Rise, high density	350		DU	
Residential: (Planning Area F-H): Mid-Rise, high density	307	473	DU	
Residential: (Planning Area B-D): Single family units, medium density	274	--	DU	
Retail: (Planning Area F-H): Regional Shopping Center	10,000	10,000	sq ft	
Recreational: (Planning Area F-H): Quality Restaurant	10,000	10,000	sq ft	
Recreational: City Park	30		acres	30.00
Recreational: Bay Trail Development	118,800		sq ft	2.73
Terminal on existing Pier		5,000	sq ft	0.00
Terminal Parking Structure		100	spaces	

Notes:

¹ Land use types and unit amounts are used as inputs to CalEEMod® and are provided by the Project Sponsor. Land use types which include a mixture of historical building re-use and new building development are split into separate land use rows, as each building type involves different construction and operational characteristics within CalEEMod®.

Abbreviations:

CalEEMod® - California Emissions Estimator Model DU - Dwelling Unit sq ft - square feet

References:

CalEEMod® 2016.3.2 Available Online at: <http://www.caleemod.com>

Table A2
Project Land Uses - Commercial Heavy (Project 1)
Point Molate
Richmond, CA

Land Use Type ¹	Amount (New)	Amount (Existing or Historical)	Unit	Lot Size (acre)
Residential (Planning Area A-D): Low-Rise, medium density	336	--	DU	80.00
Residential (Planning Area E): Mid-Rise, high density	350		DU	
Residential: (Planning Area F-H): Low-Rise, medium density	300		DU	
Residential: (Planning Area B-D): Single family units, medium density	274		DU	
Commercial: (Planning Area F-H): Office Park	230,000	354,572	sq ft	
Retail: (Planning Area F-H): Regional Shopping Center	10,000	10,000	sq ft	
Recreational: (Planning Area F-H): Quality Restaurant	10,000	10,000	sq ft	
Recreational: City Park		30	acres	30.00
Recreational: Bay Trail Development		118,800	sq ft	2.73
Terminal on existing Pier		5,000	sq ft	0.00
Terminal Parking Structure		100	spaces	

Notes:

¹ Land use types and unit amounts are used as inputs to CalEEMod® and are provided by the Project Sponsor. Land use types which include a mixture of historical building re-use and new building development are split into separate land use rows, as each building type involves different construction and operational characteristics within CalEEMod®.

Abbreviations:

CalEEMod® - California Emissions Estimator Model

DU - Dwelling Unit

sq ft - square feet

References:

CalEEMod® 2016.3.2 Available Online at: <http://www.caleemod.com>

**Table A3
Construction Emissions from Tug Boat Material Export
Point Molate
Richmond, CA**

Material Export and Tug Boat Parameters:

Load factor ¹ (Main engine)	Tug boat rating ²		Material Volume ² (cubic yds)	Material carried per barge ² (cubic yds)	Total Barges	Total Tugs ²	Time per one-way tug trip ² (hours)	Total tug transit hours (hrs) ²	Brake-specific Fuel Consumption Rate ³ (g/hp-hr)
	(hp)	(kW)							
0.50	1,600	1,193	355,000	2,000	178	89	0.50	89	184

EPA Tier 2 Emission Factors for Diesel Engines⁴:

Engine	NO _x ⁵	PM ₁₀	PM _{2.5}	ROG ⁵	CO	SO _x ⁶	CO _{2e}
	(g/bhp-hr)						(g/kWh)
Tug Total	4.2	0.15	0.15	0.60	2.6	0.0028	--

Tug Boat Transit Emissions (Tier 2):

Engine	NO _x	PM ₁₀	PM _{2.5}	ROG	CO	SO _x	CO _{2e} ⁸
	(tons)						(MT)
Tug total	0.33	0.012	0.012	0.047	0.20	2.2E-04	37
Total Emissions	0.33	0.012	0.012	0.047	0.20	2.2E-04	37

Comparison of Emissions from Haul Trucks and Tug Boats for Exporting Soil⁹

Source of Emission	NO _x	PM ₁₀	PM _{2.5}	ROG	CO	SO _x	CO _{2e}
	(tons)						(MT)
Project 1 and Project 2 - Haul Truck Emissions Total	5.6	0.018	0.017	0.17	1.1	0.017	1,609
Tug Emissions	0.33	0.012	0.012	0.047	0.20	2.2E-04	37

Notes:

- Engine load factors for Tug Boats taken from CARB Emissions Estimation Methodology for Commercial Harbor Craft Operating in California, Appendix B, Table II-3.
- Tug boat rating, total material volume, material carried per barge, and number of barges carried per tug boat were provided by the Project Sponsor. 40,000 additional cubic yards of material were added as an upper bound of potential remediation activities. A one-way trip time of 30 minutes is assumed. Total number of tug trips are rounded up to the nearest whole number to reflect total trip count. All tug trips are assumed to be two-ways.
- Brake-specific fuel consumption rate is assumed from CARB Emissions Estimation Methodology for Commercial Harbor Craft Operating in California, Appendix B, Section 2 (SO_x Emission Estimation)
- Tier 2 emission factors are assumed for all tugs, based on California Air Resources Board Non-road Diesel Engine Certification Tier Chart for engines >1207 horsepower.
- NO_x-only emission factor assumed from California Air Resources Board - Final Regulation Order Regulation For In-Use Off-Road Diesel-Fueled Fleets: Emission Factors by Horsepower and Year table.
- Annual emissions for SO_x are calculated using methods from CARB Emissions Estimation Methodology for Commercial Harbor Craft Operating in California, Appendix B, Section 2.
- GHG emission factors were estimated for Harbor Craft vessels based on US EPA Current Methodologies in Preparing Mobile Source Port-Related Emissions Inventories.
- Global warming potential values of 1 for CO₂, 25 for CH₄, and 298 for N₂O from US EPA's Federal Register (FR) final rule published on November 29, 2013 [78 FR 71904] and effective on January 1, 2014, were used to convert emissions to metric tons of carbon dioxide equivalents.
- Haul Truck emissions are based on a total material export of 355,000 CY of soil.

Abbreviations:

bhp - brake horsepower	ROG - reactive organic gases	kWh - kilowatt hour
CARB - California Air Resources Board	g - gram	NO _x - Nitrogen oxides
CH ₄ - methane	hp - horsepower	N ₂ O - nitrous oxide
CO - carbon monoxide	hr - hour	PM - Particulate Matter
CO ₂ - carbon dioxide	kw - kilowatts	CO _{2e} - carbon dioxide equivalents

References:

- CARB Emissions Estimation Methodology for Commercial Harbor Craft Operating in California, Appendix B. Accessible at: <https://ww3.arb.ca.gov/regact/2007/chc07/appb.pdf>
- California Air Resources Board Non-road Diesel Engine Certification Tier Chart. Available online at: <https://ww2.arb.ca.gov/resources/documents/non-road-diesel-engine-certification-tier-chart>
- California Air Resources Board Final Regulation Order Regulation For In-Use Off-Road Diesel-Fueled Fleets. Available online at: <https://ww3.arb.ca.gov/msprog/ordiesel/documents/finalregorder-dec2011.pdf>
- US EPA Current Methodologies in Preparing Mobile Source Port-Related Emissions Inventories. Available online at: <https://www.epa.gov/sites/production/files/2016-06/documents/2009-port-inventory-guidance.pdf>

**Table A4
Trip Generation Rates - Residential Heavy (Project 1)
Point Molate
Richmond, CA**

Transportation Impact Analysis Data and CalEEMod Default Trip Rates

Land Use	Size	Units	ADT ¹	Trips/Day/Unit Size	Units	Adjusted ADT after accounting for Reductions ²	Adjusted Trips/Day/Unit Size	Units
Retail	20	KSF	641	32	Trips/KSF	461	23	Trips/KSF
Restaurant	20	KSF	641	32	Trips/KSF	461	23	Trips/KSF
Office	585	KSF	4,782	8.2	Trips/KSF	3,443	5.9	Trips/KSF
Single Family Units	274	DU	2,630	10	Trips/DU	1,894	6.9	Trips/DU
Low-Rise Apartments	636	DU	4,770	7.5	Trips/DU	3,434	5.4	Trips/DU
Mid-Rise Apartments	350	DU	1,908	5.5	Trips/DU	1,374	3.9	Trips/DU
Public Ferry Parking	100	spaces	281	2.8	Trips/space	202	2.0	Trips/space
Subtotal			15,652					
Internal Trip Reduction (20%)			3,130					
TDM Trip Reduction (10%)			1,252					
Net new Project Trips			11,269					

Project-Specific Trip Generation

Land Use Type	Land Use Amount		Adjusted Trip Rates		
	Size	Units	Weekday Trips (rate/size/day)	Saturday Trips ⁴ (rate/size/day)	Sunday Trips ⁴ (rate/size/day)
Residential (Planning Area A-D): Low-Rise, medium density (new)	286	Dwelling Unit	5.4	5.9	5.0
Residential: (Planning Area F-H): Low-Rise, medium density (new)	350	Dwelling Unit	5.4	5.9	5.0
Residential (Planning Area E): Mid-Rise, high density (new)	350	Dwelling Unit	3.9	3.8	3.5
Residential: (Planning Area F-H): Mid-Rise, high density (historic building)	473	Dwelling Unit	3.9	3.8	3.5
Residential: (Planning Area F-H): Mid-Rise, high density (new)	307	Dwelling Unit	3.9	3.8	3.5
Residential: (Planning Area B-D): Single family units, medium density (new)	274	Dwelling Unit	6.9	7.2	6.3
Retail: (Planning Area F-H): Regional Shopping Center (historic building)	10	KSF	23	27	14
Retail: (Planning Area F-H): Regional Shopping Center (new)	10	KSF	23	27	14
Recreational: (Planning Area F-H): Quality Restaurant (historic building)	10	KSF	23	24	18
Recreational: (Planning Area F-H): Quality Restaurant (new)	10	KSF	23	24	18
Recreational: City Park	30	acres	1.9	23	17
Recreational: Bay Trail Development	2.7	acres	1.9	23	17
Terminal on existing Pier	5,000	sq ft	--	--	--
Parking: Ferry Terminal	100	spaces	2.0	2.0	2.0

Notes:

1. Average Daily Traffic (ADT) was provided in the Project's Transportation Impact Analysis (TIA).
2. Adjusted ADT is calculated by accounting for a 20% internal trip reduction and an additional 10% reduction due to Transportation Demand Management (TDM) measures, per the Project TIA.
3. Default CalEEMod® trip rates are obtained from CalEEMod Appendix D (Default Data Tables).
4. Adjusted Saturday and Sunday trip rates are estimated by scaling the weekday trip rate based on CalEEMod® default Saturday and Sunday trip rates for each land use.

Abbreviations:

ADT - average daily traffic
 CalEEMod® - California Emissions Estimator Model
 DU - dwelling units
 ksf - thousand square feet
 sq ft - square feet
 TDM - Transportation Demand Management

References:

CalEEMod® version 2016.3.2, Default Data Tables (Appendix D). Available online at: <http://www.caleemod.com/>

**Table A5
Trip Generation Rates - Commercial Heavy (Project 2)
Point Molate
Richmond, CA**

Transportation Impact Analysis Data and CalEEMod Default Trip Rates

Land Use	Size	Units	ADT ¹	Trips/Day/Unit Size	Units	Adjusted ADT after accounting for Reductions ²	Adjusted Trips/Day/Unit Size	Units
Retail	20	KSF	641	32	Trips/KSF	461	23	Trips/KSF
Restaurant	20	KSF	641	32	Trips/KSF	461	23	Trips/KSF
Office	585	KSF	4,782	8.2	Trips/KSF	3,443	5.9	Trips/KSF
Single Family Units	274	DU	2,630	10	Trips/DU	1,894	6.9	Trips/DU
Low-Rise Apartments	636	DU	4,770	7.5	Trips/DU	3,434	5.4	Trips/DU
Mid-Rise Apartments	350	DU	1,908	5.5	Trips/DU	1,374	3.9	Trips/DU
Public Ferry Parking	100	spaces	281	2.8	Trips/space	202	2.0	Trips/space
Subtotal			15,652					
Internal Trip Reduction (20%)			3,130					
TDM Trip Reduction (10%)			1,252					
Net new Project Trips			11,269					

Project-Specific Trip Generation

Land Use Type	Land Use Amount		Adjusted Trip Rates		
	Size	Units	Weekday Trips (rate/size/day)	Saturday Trips ⁴ (rate/size/day)	Sunday Trips ⁴ (rate/size/day)
Residential (Planning Area A-D): Low-Rise, medium density	376	Dwelling Unit	5.4	5.9	5.0
Residential (Planning Area E): Mid-Rise, high density	350	Dwelling Unit	3.9	3.8	3.5
Residential: (Planning Area F-H): Low-Rise, medium density (new)	300	Dwelling Unit	5.4	5.9	5.0
Residential: (Planning Area B-D): Single family units, medium density (new)	274	Dwelling Unit	6.9	7.2	6.3
Commercial: (Planning Area F-H): Office Park (historic building)	355	KSF	5.9	0.85	0.39
Commercial: (Planning Area F-H): Office Park (new)	230	KSF	5.9	0.85	0.39
Retail: (Planning Area F-H): Regional Shopping Center (historic building)	10	KSF	23	27	14
Recreational: (Planning Area F-H): Quality Restaurant (historic building)	10	KSF	23	24	18
Retail: (Planning Area F-H): Regional Shopping Center (new)	10	KSF	23	27	14
Recreational: (Planning Area F-H): Quality Restaurant (new)	10	KSF	23	24	18
Recreational: City Park	30	acres	1.9	23	17
Recreational: Bay Trail Development	2.7	acres	1.9	23	17
Terminal on existing Pier	5,000	sq ft	--	--	--
Parking: Ferry Terminal	100	spaces	2.0	2.0	2.0

Notes:

1. Average Daily Traffic (ADT) was provided in the Project's Transportation Impact Analysis (TIA).
2. Adjusted ADT is calculated by accounting for a 20% internal trip reduction and an additional 10% reduction due to Transportation Demand Management (TDM) measures.
3. Default CalEEMod® trip rates are obtained from CalEEMod Appendix D (Default Data Tables).
4. Adjusted Saturday and Sunday trip rates are estimated by scaling the weekday trip rate based on CalEEMod® default Saturday and Sunday trip rates for each land use

Abbreviations:

ADT - average daily traffic
 CalEEMod® - California Emissions Estimator Model
 DU - dwelling units
 ksf - thousand square feet
 sq ft - square feet
 TDM - Transportation Demand Management

References:

CalEEMod® version 2016.3.2, Default Data Tables (Appendix D). Available online at: <http://www.caleemod.com/>

**Table A6
Ferry Emissions - Unmitigated & Mitigated
Point Molate
Richmond, CA**

Ferry Engine Parameters:

Engine	Engine Horsepower ¹	Engine Load factor ² (transit)	Engine Load factor ² (Idling)	Annual hours in Transit ³	Annual hours Idling ⁴	Brake-specific Fuel Consumption Rate ⁵
						[g/hp-hr]
Ferry total	2,900	0.42	0.010	730	964	184

EPA Emission Factors for Diesel Engines⁶:

Engine Tier	NO _x ⁷	PM	ROG ⁷	CO	SO _x ⁸	CO ₂ ⁹	N ₂ O ⁹	CH ₄ ⁹	CO ₂ e
	(g/bhp-hr)	(g/bhp-hr)	(g/bhp-hr)	(g/bhp-hr)	(g/bhp-hr)	(g/kWh)	(g/kWh)	(g/kWh)	(MT/yr)
Tier 2	4.2	0.15	0.60	2.6	0.0028	690	0.020	0.090	--
Tier 4	2.6	0.030	0.14	2.6					
Unmitigated Ferry Emissions (Tier 2)¹⁰									
	NO _x	PM	ROG	CO	SO _x	CO ₂	N ₂ O	CH ₄	CO ₂ e ¹¹
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(MT/yr)	(MT/yr)	(MT/yr)	(MT/yr)
Transit Total	4.1	0.15	0.59	2.5	0.0027	457	0.013	0.060	463
Idling Total	0.13	0.0046	0.018	0.080	8.5E-05	14	4.2E-04	0.0019	15
Total Emissions	4.2	0.15	0.61	2.6	0.0028	472	0.014	0.062	477
Mitigated Ferry Emissions¹²									
	NO _x	PM	ROG	CO	SO _x	CO ₂	N ₂ O	CH ₄	CO ₂ e ¹¹
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(MT/yr)	(MT/yr)	(MT/yr)	(MT/yr)
Transit Total	2.5	0.029	0.14	2.5	0.0027	457	0.013	0.060	463
Idling Total	0.080	9.2E-04	0.0043	0.080	8.5E-05	14	4.2E-04	0.0019	15
Total Emissions	2.6	0.030	0.14	2.6	0.0028	472	0.014	0.062	477

Notes:

- Ferries are assumed to be "small-sized" (149-passenger, 2,900 HP) corresponding to classification in the 2003 WETA Program EIR.
- Engine load factors for ferry transit are from CARB Emissions Estimation Methodology for Commercial Harbor Craft Operating in California, Appendix B, Table II-3. Engine loads during idling are assumed to be 0.01, consistent with the 2013 SF Ferry Terminal Expansion EIR.
- Annual Transit hours are based on 4 one-way trips per day, calculated using the transit time of the route from SF Ferry Terminal to Larkspur Terminal (30 minutes). While the proposed distance from SF Ferry Terminal to Point Molate is slightly shorter, 30 minutes is used as a conservative assumption.
- Annual Idling hours are based on 4 one-way trips per day (see above) using average berth time of 20 mins per visit on both trip ends, as per the 2013 SF Ferry Terminal Expansion EIR.
- Brake-specific fuel consumption rate is assumed from CARB Emissions Estimation Methodology for Commercial Harbor Craft Operating in California, Appendix B, Section 2 (SOx Emission Estimation).
- Emission factors are pulled from the CARB Non-road Diesel Engine Certification Tier Chart for engines >750 horsepower. Tier 2 emission factors are used to estimate unmitigated emissions, consistent with the 2013 WETA Program EIR which assumes by 2025 all ferries are expected to be Tier 2 or equivalent.
- Tier 2 NO_x-only emission factor is assumed from CARB - Final Regulation Order Regulation For In-Use Off-Road Diesel-Fueled Fleets: Emission Factors by Horsepower and Year table. Tier 2 emission factor for ROG is assumed by subtracting from NO_x+NMHC emission factor from CARB Non-road Diesel Engine Certification Tier Chart. Tier 4 emissions are given separately for NO_x and NMHC in the Engine Certification Tier Chart. NMHC and ROGs are approximately the same with some small differences, and used interchangeably here.
- SO_x emissions are calculated using methods from CARB Emissions Estimation Methodology for Commercial Harbor Craft Operating in California, Appendix B, Section 2.
- GHG emission factors were estimated for Harbor Craft vessels based on US EPA Current Methodologies in Preparing Mobile Source Port-Related Emissions Inventories.
- Unmitigated ferry emissions are estimated assuming Tier 2 emission factors.
- Global warming potential values of 1 for CO₂, 25 for CH₄, and 298 for N₂O from US EPA's Federal Register (FR) final rule published on November 29, 2013 [78 FR 71904] and effective on January 1, 2014, were used to convert emissions to metric tons of carbon dioxide equivalents.
- Mitigated ferry emissions are estimated assuming Tier 4 emission factors.

Abbreviations

bhp - brake horsepower	ROG - reactive organic gases	kWh - kilowatt hour	tons - short tons
CARB - California Air Resources Board	g - gram	NO _x - Nitrogen oxides	yds - yards
CH ₄ - methane	hp - horsepower	N ₂ O - nitrous oxide	yr - year
CO - carbon monoxide	hr - hour	PM - Particulate Matter	MT - metric tons
CO ₂ - carbon dioxide	kw - kilowatts	CO ₂ e - carbon dioxide equivalents	

References

- CARB Emissions Estimation Methodology for Commercial Harbor Craft Operating in California. Accessible at: <https://ww3.arb.ca.gov/regact/2007/chc07/appb.pdf>
- California Air Resources Board Non-road Diesel Engine Certification Tier Chart. Available online at: <https://ww2.arb.ca.gov/resources/documents/non-road-diesel-engine-certification-tier-chart>
- California Air Resources Board Final Regulation Order Regulation For In-Use Off-Road Diesel-Fueled Fleets. Available online at: <https://ww3.arb.ca.gov/msprog/ordiesel/documents/finalregorder-dec2011.pdf>
- San Francisco Bay Ferry Water Emergency Transportation Authority (WETA) Publications - 2003 Program Environmental Impact Report. Accessible online at: <https://weta.sanfranciscobayferry.com/publications>
- US EPA Current Methodologies in Preparing Mobile Source Port-Related Emissions Inventories available at: <https://www.epa.gov/sites/production/files/2016-06/documents/2009-port-inventory-guidance.pdf>

**Table A7
WWTP Brine Truck Emissions Calculations
Point Molate
Richmond, CA**

Distances	Contra Costa Landfill
One Way (miles) ¹	6.1
Round Trip (miles)	12
Number of Trips per Day ²	0.20
Daily Total (miles)	2.4

Pollutant ³	Emission Factor Category ³	Emission Factor ⁴	Units	Daily Emissions (g/day)
CH ₄	Idling Exhaust	0.024	g/trip	0.0049
	Running Exhaust	0.047	g/mile	0.11
	Starting Exhaust	3.7E-07	g/trip	7.4E-08
CO	Idling Exhaust	6.3	g/trip	1.3
	Running Exhaust	0.40	g/mile	1.0
	Starting Exhaust	0.0053	g/trip	0.0011
CO ₂	Idling Exhaust	1,039	g/trip	208
	Running Exhaust	1,409	g/mile	3,438
	Starting Exhaust	0.042	g/trip	0.0084
NO _x	Idling Exhaust	5.3	g/trip	1.1
	Running Exhaust	2.7	g/mile	6.5
	Starting Exhaust	2.4	g/trip	0.47
PM ₁₀	Idling Exhaust	0.0026	g/trip	5.2E-04
	Brake Wear	0.061	g/mile	0.15
	Tire Wear	0.035	g/mile	0.087
	Running Exhaust	0.025	g/mile	0.061
PM _{2.5}	Starting Exhaust	7.0E-07	g/trip	1.4E-07
	Idling Exhaust	0.0025	g/trip	5.0E-04
	Brake Wear	0.026	g/mile	0.064
	Tire Wear	0.0089	g/mile	0.022
	Running Exhaust	0.024	g/mile	0.058
	Starting Exhaust	6.4E-07	g/trip	1.3E-07
ROG	Diurnal Loss	2.0E-06	g/trip	4.0E-07
	Hot Soak	9.4E-05	g/trip	1.9E-05
	Idling Exhaust	0.42	g/trip	0.085
	Resting Loss	1.2E-06	g/trip	2.5E-07
	Running Exhaust	0.025	g/mile	0.062
	Running Loss	4.4E-05	g/mile	1.1E-04
SO ₂	Starting Exhaust	1.9E-06	g/trip	3.9E-07
	Idling Exhaust	0.010	g/trip	0.0019
	Running Exhaust	0.013	g/mile	0.031
	Starting Exhaust	4.2E-07	g/trip	8.4E-08
TOG	Diurnal Loss	2.0E-06	g/trip	4.0E-07
	Hot Soak	9.4E-05	g/trip	1.9E-05
	Idling Exhaust	0.49	g/trip	0.10
	Resting Loss	1.2E-06	g/trip	2.5E-07
	Running Exhaust	0.075	g/mile	0.18
	Running Loss	4.4E-05	g/mile	1.1E-04
	Starting Exhaust	2.1E-06	g/trip	4.3E-07

Pollutant	Total Emissions (g/day)	Total Emissions (tons/year or MT/year)
ROG	0.15	5.9E-05
NO_x	8.0	0.0032
CO	2.2	9.0E-04
SO₂	0.033	1.3E-05
PM₁₀	0.30	1.2E-04
PM_{2.5}	0.14	5.8E-05
CO₂e	3,649	1.3

Notes:

- The brine trucks are assumed to go to the closest landfill facility (Contra Costa Landfill); the closest land fill is located roughly 6.1 miles from the Project site.
- The brine trucks are assumed to travel to the landfill once per week, as provided by the Project Sponsor. This is roughly estimated to 1/5 trips/day; assuming trucks run only on weekdays.
- Emissions for the brine trucks are estimated using EMFAC 2017 for Contra Costa County.
- The brine trucks are assumed to be only Heavy Heavy Duty Trucks.

Abbreviations:

WWTP - Wastewater Treatment Plant NO_x - Nitrogen Oxides
g - grams PM₁₀ - Particulate Matter <10 µm in diameter
MT - metric tons PM_{2.5} - Particulate Matter <2.5 µm in diameter
CH₄ - Methane ROG - Reactive Organic Gases
CO - Carbon Monoxide SO₂ - Sulfur Dioxide
CO₂ - Carbon Dioxide TOG - Total Organic Gases
CO₂e - Carbon Dioxide equivalents

References:

California Air Resources Board (ARB) 2017. EMFAC2017. Available at: <https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/msei-modeling-tools>

Table A8
VOC Emissions from WWTP
Point Molate
Richmond, California

Throughput (MMgd)	0.3
--------------------------	-----

Unit Process ¹	Emission Factor ²	Average Daily Flow ³	VOC Emissions	
	(lb/yr/MMgd)	(MMgd)	(lb/yr)	(tpy)
Headworks-Ducted	86	0.30	26	0.013
Activated Sludge - Diffused Air	186	0.30	56	0.028
Gravity Filtration	0.58	0.30	0.17	8.7E-05
Primary Sludge Thickening - Gravity	0.14	0.30	0.042	2.1E-05
Sludge Cake Storage	6.1	0.30	1.8	9.2E-04
Digested Sludge Storage	15	0.30	4.4	0.0022
Sludge Cake Truck Loading Operations	1.7	0.30	0.52	2.6E-04
Total			89	0.044

Notes:

1. Unit processes at the Project WWTP site are represented using processes given by MDAQMD guidance for wastewater treatment plants.
2. Emission factors are assumed from MDAQMD guidance for waste water treatment plants, and are based on the JEIP Unit Process study empirical results.
3. The total throughput through the facility is conservatively assumed to flow through every unit process.

Abbreviations:

lb - pounds
 JEIP - Joint Emissions Inventory Program
 MDAQMD - Mojave Desert Air Quality Management District
 MMgd - million gallons per day
 tpy - tons per year
 VOC - volatile organic compounds
 WWTP - waste water treatment plant
 yr - year

References:

Mojave Desert Air Quality Management District. Emissions Inventory Program. Available online at:
<http://www.mdaqmd.ca.gov/home/showdocument?id=790>

**Table A9
WWTP Sewage Truck Emissions Calculations
Point Molate
Richmond, CA**

Distances	West County Wastewater
One Way (miles) ¹	5.0
Round Trip (miles)	10
Wastewater flow (gpd)	275,672
Number of Days of wastewater hauled per year	3.0
Total wastewater hauled per year	827,016
Water Tank Capacity (gals)	5,000
Total number of haul trips needed	166
Haul trips per day	55
Daily Total (miles)	553

Pollutant ³	Emission Factor Category ³	Emission Factor ⁴	Units	Daily Emissions (g/day)
CH ₄	Idling Exhaust	0.024	g/trip	1.3
	Running Exhaust	0.047	g/mile	26
	Starting Exhaust	3.7E-07	g/trip	2.1E-05
CO	Idling Exhaust	6.3	g/trip	347
	Running Exhaust	0.40	g/mile	223
	Starting Exhaust	0.0053	g/trip	0.30
CO ₂ - Non Biogenic	Idling Exhaust	1,039	g/trip	57,504
	Running Exhaust	1,409	g/mile	779,759
	Starting Exhaust	0.042	g/trip	2.3
NO _x	Idling Exhaust	5.3	g/trip	295
	Running Exhaust	2.7	g/mile	1,472
	Starting Exhaust	2.4	g/trip	130
PM ₁₀	Idling Exhaust	0.0026	g/trip	0.14
	Brake Wear	0.061	g/mile	34
	Tire Wear	0.035	g/mile	20
	Running Exhaust	0.025	g/mile	14
	Starting Exhaust	7.0E-07	g/trip	3.9E-05
PM _{2.5}	Idling Exhaust	0.0025	g/trip	0.14
	Brake Wear	0.026	g/mile	14
	Tire Wear	0.0089	g/mile	4.9
	Running Exhaust	0.024	g/mile	13
	Starting Exhaust	6.4E-07	g/trip	3.6E-05
ROG	Diurnal Loss	2.0E-06	g/trip	1.1E-04
	Hot Soak	9.4E-05	g/trip	0.0052
	Idling Exhaust	0.42	g/trip	23
	Resting Loss	1.2E-06	g/trip	6.9E-05
	Running Exhaust	0.025	g/mile	14
	Running Loss	4.4E-05	g/mile	0.025
	Starting Exhaust	1.9E-06	g/trip	1.1E-04
SO ₂	Idling Exhaust	0.010	g/trip	0.54
	Running Exhaust	0.013	g/mile	7.1
	Starting Exhaust	4.2E-07	g/trip	2.3E-05
TOG	Diurnal Loss	2.0E-06	g/trip	1.1E-04
	Hot Soak	9.4E-05	g/trip	0.0052
	Idling Exhaust	0.49	g/trip	27
	Resting Loss	1.2E-06	g/trip	6.9E-05
	Running Exhaust	0.075	g/mile	41
	Running Loss	4.4E-05	g/mile	0.025
	Starting Exhaust	2.1E-06	g/trip	1.2E-04

Pollutant	Total Emissions (g/day)	Total Emissions (tons/year or MT/year)
ROG	38	1.2E-04
NO _x	1,898	0.0063
CO	571	0.0019
SO ₂	7.7	2.5E-05
PM ₁₀	67	2.2E-04
PM _{2.5}	33	1.1E-04
CO _{2e}	837,943	2.8

Notes:

1. Sewage trucks are assumed to go to either the Richmond Sewage Treatment Plant or West County Wastewater; the further distance of the two (5 miles to West County Wastewater) is used conservatively.
2. Sewage trucks are assumed to travel to the wastewater facility up to 3 days per year in the event of an onsite WWTP outage.
3. Emissions for the sewage trucks are estimated using EMFAC 2017 for Contra Costa County.
4. The sewage trucks are assumed to be only Heavy Heavy Duty Trucks.

Abbreviations:

CH ₄ - Methane	NO _x - Nitrogen Oxides
CO - Carbon Monoxide	PM ₁₀ - Particulate Matter <10 µm in diameter
CO ₂ - Carbon Dioxide	PM _{2.5} - Particulate Matter <2.5 µm in diameter
CO _{2e} - Carbon Dioxide equivalents	ROG - Reactive Organic Gases
g - grams	SO ₂ - Sulfur Dioxide
gpd - grams per day	TOG - Total Organic Gases
MT - metric tons	WWTP - Wastewater Treatment Plant

References:

California Air Resources Board (ARB) 2017. EMFAC2017. Available at: <https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/msei-modeling-tools>

Table A10
Emergency and Lift Pump Generator Emissions
Point Molate
Richmond, California

Emission Factors

Fuel	Engine Tier	Generator Size Range (hp)		Emission Factor (g/hp-hr)											
				Minimum	Maximum	TOG	ROG	CO	NO _x	SO ₂	DPM	PM ₁₀	PM _{2.5}	CO ₂	CH ₄
				Diesel ¹	Tier 4 Final	50	75	0.19	0.19	3.70	3.3	0.0049	0.020	0.020	0.020
		75	100	0.15	0.15	3.70	0.29	0.0049	0.010	0.010	0.010	521.6	0.073		
		100	175	0.15	0.15	3.70	0.29	0.0049	0.010	0.010	0.010	521.6	0.073		
		175	300	0.15	0.15	2.60	0.30	0.0049	0.010	0.010	0.010	521.6	0.073		
		300	600	0.15	0.15	2.60	0.30	0.0049	0.010	0.010	0.010	521.6	0.073		
		600	750	0.15	0.15	2.60	0.30	0.0049	0.010	0.010	0.010	521.6	0.073		
		750	1207	0.15	0.15	2.60	0.50	0.0049	0.020	0.020	0.020	521.6	0.073		
		1207	--	0.15	0.15	2.60	0.50	0.0049	0.020	0.020	0.020	521.6	0.073		
Propane ²	All	All		0.01	0.01	0.09	0.16	0.14	0.01	0.01	0.01	161			

Total Emissions

Location	Fuel	Size		Operational Hours	Annual Emissions								
					TOG	ROG	CO	NO _x	SO ₂	DPM	PM ₁₀	PM _{2.5}	CO ₂ e ³
					tons/yr								MT/year
Project Emergency Generators													
Fire Station	Propane	20	27	50	1.9E-05	1.7E-05	1.4E-04	2.4E-04	2.1E-04	1.3E-05	1.3E-05	1.3E-05	0.22
Winehaven 1	Diesel	500	671	50	5.63E-03	5.54E-03	9.61E-02	1.11E-02	1.81E-04	3.70E-04	3.70E-04	3.70E-04	17.56
Winehaven 2	Diesel	500	671	50	5.63E-03	5.54E-03	9.61E-02	1.11E-02	1.81E-04	3.70E-04	3.70E-04	3.70E-04	17.56
Winehaven 3	Diesel	500	671	50	5.63E-03	5.54E-03	9.61E-02	1.11E-02	1.81E-04	3.70E-04	3.70E-04	3.70E-04	17.56
Winehaven 4	Diesel	500	671	50	5.63E-03	5.54E-03	9.61E-02	1.11E-02	1.81E-04	3.70E-04	3.70E-04	3.70E-04	17.56
Winehaven 5	Diesel	500	671	50	5.63E-03	5.54E-03	9.61E-02	1.11E-02	1.81E-04	3.70E-04	3.70E-04	3.70E-04	17.56
Additional Emergency Generators, With WWTP													
Lift Pump 1	Diesel	50	67	50	7.03E-04	6.92E-04	1.37E-02	1.23E-02	1.81E-05	7.39E-05	7.39E-05	7.39E-05	1.76
Lift Pump 2	Diesel	50	67	50	7.03E-04	6.92E-04	1.37E-02	1.23E-02	1.81E-05	7.39E-05	7.39E-05	7.39E-05	1.76
WWTP Generator	Diesel	500	671	50	5.63E-03	5.54E-03	9.61E-02	1.11E-02	1.81E-04	3.70E-04	3.70E-04	3.70E-04	17.56
Additional Emergency Generators, Without WWTP													
Lift Pump 1	Diesel	50	67	50	7.03E-04	6.92E-04	1.37E-02	1.23E-02	1.81E-05	7.39E-05	7.39E-05	7.39E-05	1.8
Lift Pump 2	Diesel	50	67	50	7.03E-04	6.92E-04	1.37E-02	1.23E-02	1.81E-05	7.39E-05	7.39E-05	7.39E-05	1.8
Lift Pump 3	Diesel	175	235	50	1.97E-03	1.94E-03	3.36E-02	3.88E-03	6.34E-05	1.29E-04	1.29E-04	1.29E-04	6.1
Total with WWTP					0.035	0.035	0.604	0.091	0.001	0.002	0.002	0.002	109.1
Total without WWTP					0.032	0.031	0.542	0.084	0.001	0.002	0.002	0.002	97.7

Notes:

- Diesel engine emission factors are based on CARB standards for diesel generator engines. Emission factors for TOG and ROG were converted from NMHC values provided in the Tier standards using EPA hydrocarbon conversion factors. When an emission factor was specified as a combined NMHC+NO_x factor, the NMHC/NO_x ratio of 5%/95% are taken from BAAQMD guidance.
- Propane generator emission factors are assumed to be equal to LPG-fired external combustion engines. LPG-fired engine emission factors for ROG, NO_x, PM₁₀, and PM_{2.5} based on AP-42 Chapter 1.5 (USEPA 2008). The AP-42 factors are for external combustion but are used here to approximate emissions from internal combustion engines.
- The CO₂e emissions are based on a global warming potentials of 1 kg CO₂e/kg CO₂ and 25 kg CO₂e/kg for CH₄, as per IPCC Fifth Assessment Report.

Abbreviations:

BAAQMD - Bay Area Air Quality Management District	LPG - liquefied petroleum gas
CARB - California Air Resources Board	NMHC - non-methane hydrocarbon
DPM - diesel particulate matter	NO _x - nitrogen oxides
EPA - United States Environmental protection Agency	PM - particulate matter
g - grams	ROG - reactive organic gases
hp - horsepower	TOG total organic gases
hr - hour	WWTP - wastewater treatment plant
kW - kilowatts	yr - year

References:

- BAAQMD. 2004. CARB Emission Factors for CI Diesel Engines - Percent HC in Relation to NMHC + NO_x.
 California Air Resources Board Non-road Diesel Engine Certification Tier Chart. Available online at: <https://ww2.arb.ca.gov/resources/documents/non-road-diesel-engine-certification-tier-chart>
 Intergovernmental Panel on Climate Change (IPCC), Fifth Assessment Report (AR5), 2014.
 USEPA. 2010. Conversion Factors for Hydrocarbon Emission Components, NR-002d. EPA-420-R-10-015. July. Available online at: <https://nepis.epa.gov/Exec/QueryPDF.cgi/P1002K48.PDF?Dockey=P1002K48.PDF>

**Table A11
Energy and Emissions Estimates from Conversion of Natural Gas to Electric Water Heaters and Space Heaters
Point Molate
Richmond, CA**

		Commercial Energy Use ¹			Residential Energy Use ²	
Fuel Type	Appliance	Percent of Total Annual Energy Use ³			Percent of Primary Natural Gas Energy Uses ^{3,4}	
		Office	Retail	Restaurant	Single Family Units	5+ Unit Apartments
Gas	Space Heater	87%	75%	4%	44%	13%
	Water Heater	10%	14%	22%	47%	76%
Fuel Type	Appliance	Energy Use Index (kWh/ksf/year) ³			Energy Use per Dwelling Unit (kWh/DU/year) ³	
		Office	Retail	Restaurant	Single Family Units	5+ Unit Apartments
Electric	Space Heater	683	714	175	1,171	570
	Water Heater	245	214	2,187	3,169	1,543

Emission Changes								
Project Scenario	Source Category	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}	CO _{2e}
		(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(MT/yr)
Project 1 (Residential Heavy)	Reduction in Natural Gas	-0.10	-0.88	-0.38	-0.0056	-0.071	-0.071	-1,029
	Increase in Electricity	0	0	0	0	0	0	466
	Total Change	-0.103	-0.884	-0.383	-0.006	-0.071	-0.071	-563
Project 2 (Commercial Heavy)	Reduction in Natural Gas	-0.14	-1.3	-0.76	-0.0078	-0.10	-0.10	-1,424
	Increase in Electricity	0	0	0	0	0	0	362
	Total Change	-0.143	-1.26	-0.76	-0.0078	-0.099	-0.099	-1062

Notes:

- Commercial energy consumption by end-use is provided from the California Commercial End Use Survey for Pacific Gas and Electric Company (PG&E) for Electric fuel types and All-Office, Retail and Restaurant building types.
- Residential energy consumption data is provided per appliance type by the California Energy Commission (CEC) 2009 Residential Appliance Saturation Study. The CEC began an updated survey in 2019, but results are not yet available as of April, 2020.
- To account for the replacement of natural gas water heaters and space heaters with electric water heaters, CalEEMod Title-24 natural gas intensities are decreased by the percent of natural gas energy use, and CalEEMod Title-24 electricity intensities are increased by the rate shown for water and space heating.
- Residential Natural Gas Energy Consumption estimates are presented only for homes with natural gas billing data. Primary Natural Gas Energy Use totals are derived by summing energy uses for water heaters, primary heating, and ranges/ovens.

Abbreviations:

DU - Dwelling Unit kBTU - thousand British Thermal Units kWh - kilowatt-hour
 EF - Energy Factor ksf - thousand square feet

References:

California Commercial End Use Survey, Annual Summary Statistics. Accessed February 2020. Available online at <http://capabilities.itron.com/CeusWeb/Chart.aspx>
 2009. California Energy Commission. California Residential Appliance Saturation Study, Volume 2: Study Results. Accessible online at https://webtools.dnvgl.com/RASS2009/Uploads/2009_RASS_Volume%202_FINAL_101310.pdf

Table A12
EMFAC 2017 Inputs
Point Molate
Richmond, CA

Parameter	Input Value
Region	Sub-Area
Sub-Area	Contra Costa (SF)
Calendar Year	2024
Fuel Aggregation Level	By Fuel
Model Year	Aggregated 1980-2025
Natural Gas Heavy Duty Output	Yes
Option List	Output by Process
Pollutant List	CO, NO _x , HC, PM, PM ₁₀ , PM _{2.5} , ROG, TOG, SO _x , GHG and Fuel
Run Mode	Emissions
Run Type	Default
Season Month Value	Annual
Speed Aggregate Level	Aggregated
Speed Fractions	FALSE
Time Aggregate Level	Day
Vehicle Class Aggregate Level	By Class
Vehicle Class List	LDA, LDT1, LDT2, MDV, MH, MCY, LHDT1, LHDT2, MHDT, HHDT, SBUS, UBUS, OBUS
Vehicle Class Type	EMFAC2007

**Table A13
Contra Costa County VOC Emission Factor
Point Molate
Richmond, CA**

Derivation of 2017 VOC Inventory (tons/day)

Statewide Inventory ¹	VOC Inventory (tons/day)	Rule Reductions
2013 California Statewide inventory from ARB ISOR	205.0	--
2010 Amendments effective January 1, 2014	200.0	-5.0
2010 Amendments effective January 1, 2015	199.8	-0.2
2013 Amendments effective January 1, 2017	195.7	-4.1
2017 Inventory Adjusted from 2013 Inventory by Rule Amendments	195.7	--

Derivation of 2017 Total Building Square Footage

Parameter	Value
2008 Statewide Total Building Square Footage ²	22,435,267,518
2008 California Population ³	36,856,222
2017 California Population (projection) ⁴	39,590,613
2017 Statewide Total Building Square Footage⁵	24,099,756,992

Derivation of Contra Costa County Efficiency Credit

Parameter	Contra Costa County	California - Statewide
2008 VOC Inventory (tons/day) ^{2,6}	6.4	239.6
2008 Population ³	1,033,292	36,856,222
VOC Emissions per Capita (lb/day/person)	0.012	0.013
Percent Reduction Due to Contra Costa County VOC Efficiency per Capita (%)⁷	4.3%	--

Derivation of 2017 Contra Costa County Consumer Products VOC EF

2017 VOC Inventory (tons/day)	195.7
2017 Building Square Footage	24,099,756,992
Contra Costa County VOC Efficiency per Capita (%)	4%
Contra Costa County VOC EF (lb/sqft/day)	1.55E-05
Reduction from Default CalEEMod EF based on 2008 Statewide VOC Inventory (%)	27.2%

Notes:

- 2013 statewide VOC emissions and reductions are from ARB's Staff Report: Initial Statement of Reasons for Proposed Rulemaking dated August 7, 2013.
- 2008 Statewide VOC emissions inventory and total building square footage are from CalEEMod Appendix E Technical Source Documentation.
- 2008 Statewide and Contra Costa County population estimates are from State of California Department of Finance's "E-2 California County Population Estimates and Components of Change by Year - July 1, 2000-2010."
- 2017 Statewide and Contra Costa County population estimates are from State of California Department of Finance's "E-2 California County Population Estimates and Components of Change by Year - July 1, 2010-2020."
- 2017 total building square footage estimated by scaling the 2008 total building square footage by the ratio of the 2017 statewide population to the 2008 statewide population.
- 2008 Contra Costa County VOC emissions are from the ARB Almanac (published 2009).
- Contra Costa County VOC efficiency per capita is calculated as the percent difference between the statewide and Contra Costa County VOC emissions per capita.

Abbreviations:

ARB - Air Resources Board
 EF - emission factor
 ISOR - Initial Statement of Reasons
 lb - pound
 sqft - square foot
 VOC - volatile organic compound

References:

California Air Resources Board. "California Almanac of Emissions and Air Quality - 2013 Edition." Available online at: <https://ww2.arb.ca.gov/our-work/programs/resource-center/technical-assistance/air-quality-and-emissions-data/almanac>

California Air Resources Board. "Staff Report: Initial Statement of Reasons for Proposed Rulemaking". August 2013. Available online at: <https://ww3.arb.ca.gov/regact/2013/cp2013/cp13isor.pdf>.

California Emissions Estimator Model. Appendix E "Technical Source Documentation". October 2017. Available online at: <http://www.caleemod.com/>

State of California Department of Finance. "E-2 California County Population Estimates and Components of Change by Year - July 1, 2000-2010". Available online at: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-2/2000-10/documents/E-2_Report_July2000-2010_updated_with_2010_Census.xls

State of California Department of Finance. "E-2 California County Population Estimates and Components of Change by Year - July 1, 2010-2020". Available online at: http://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-2/documents/E-2_Report_July_2010-2019w.xlsx

California Air Resources Board. "Almanac Emission Project Data (Published in 2009)." Available online at: <https://www.arb.ca.gov/app/emsvn/emssumcat.php>

Table A14
CalEEMod Energy Use Rates - Residential Heavy
Point Molate
Richmond, CA

CalEEMod Energy Use Rates (including 2019 Title 24 adjustments and rooftop PV for low-rise and single family homes)

Land Use Type	Historical ¹					Non-Historical (2019 Title 24) ²				
	T24 Electricity	NT24 Electricity	Lighting Electricity	T24 Natural Gas	NT24 Natural Gas	T24 Electricity	NT24 Electricity	Lighting Electricity	T24 Natural Gas	NT24 Natural Gas
	kWhr per DU or sq ft			kBtu per DU or Sq ft		kWhr per DU or sq ft			kBtu per DU or Sq ft	
Apartment Low-Rise ³	143	2,631	810	22,211	2,753	0	0	0	16,901	2,615
Apartment Mid-Rise	389	2,562	741	7,733	1,662	384	3,054	667	5,828	2,615
Single Family Units ³	322	5,096	1,609	49,808	6,193	0	0	0	35,976	2,615
Regional Shopping Center	2.9	3.4	5.9	5.0	1.0	2.0	3.4	4.4	4.0	1.0
Quality Restaurant	3.4	21	6.5	43	128	2.4	21	4.8	40	128
Office Park	5.7	4.8	4.2	21	1.0	3.8	4.8	3.1	17	1.0
City Park	0	0	0	0	0	0	0	0	0	0
Convenience Market (24 hr)	2.9	3.4	5.9	5.0	1.0	2.0	3.4	4.4	4.0	1.0
Unenclosed Parking Structure ⁴	0	0	2.6	0	0	0	0	1.1	0	0

Unmitigated CalEEMod Energy Use Rates (Adjusted for 25% reduction in residential natural gas use)⁵

Land Use Type	Project Design Feature Energy Changes ⁶		Adjusted Unmitigated Energy Use Rates ⁷				
	% Natural Gas Reduction (T24 and NT24)	Additional T24 Electricity Use to Replace NG Reduction kBtu per DU	T24 Electricity	NT24 Electricity	Lighting Electricity	T24 Natural Gas	NT24 Natural Gas
			kWhr per DU or sq ft			kBtu per DU or Sq ft	
Apartment Low-Rise	25%	1,430	1,430	0	0	12,676	1,961
Apartment Mid-Rise		0,648	1,034	2,848	698	4,969	1,662
Single Family Units		2,827	2,827	0	0	26,982	1,961
Regional Shopping Center	--	--	2.5	3.4	5.1	4.5	1.0
Quality Restaurant	--	--	2.9	21	5.6	41	128
City Park	--	--	0	0	0	0	0
Bay Trail Development	--	--	0	0	0	0	0
Terminal on existing Pier	--	--	2.9	3.4	5.9	5.0	1.0
Unenclosed Parking Structure ⁴	--	--	0	0	1.1	0	0

Mitigated CalEEMod Energy Use Rates (further adjusted for replacement of NG space and water heating with electric appliances)⁸

Land Use Type	Mitigation Measure Energy Changes ⁹		Adjusted Mitigated Energy Use Rates ⁸				
	% T24 Natural Gas Reduction	Additional T24 Electricity Use to Replace NG Reduction kWh per DU or ksf	T24 Electricity	NT24 Electricity	Lighting Electricity	T24 Natural Gas	NT24 Natural Gas
			kWhr per DU or sq ft			kBtu per DU or Sq ft	
Apartment Low-Rise	88%	2,113	3,542.93	0.00	0.00	1,466.66	1,961.25
Apartment Mid-Rise	88%	2,113	3,146.60	2,848.06	698.33	574.91	1,662.07
Single Family Units	91%	4,340	7,167.49	0.00	0.00	2,340.63	1,961.25
Regional Shopping Center	88%	0.93	3.38	3.36	5.12	0.53	1.00
Quality Restaurant	26%	2.4	5.26	20.97	5.61	30.50	128.00
City Park	0	0	0.00	0.00	0.00	0.00	0.00
Bay Trail Development	0	0	0.00	0.00	0.00	0.00	0.00
Terminal on existing Pier	88%	0.93	3.83	3.36	5.88	0.59	1.00
Unenclosed Parking Structure ⁴	0	0	0.00	0.00	1.14	0.00	0.00

Notes:

- Historical energy intensities are determined using the historical default values from CalEEMod (adjustment to 2005 standards).
- Updates to 2019 Title 24 requirements become effective on January 1, 2020 and include a requirement for solar photovoltaic systems for new homes, additional high efficiency lighting requirements, high performance attic and walls, higher efficiency water and space heaters, and high efficiency air filters. Relative to CalEEMod default 2016 energy use rates, the 2019 standards are expected to reduce non-residential electricity consumption by approximately 10.7% and natural gas consumption by 1%. Increased efficiency required in 2019 Title 24 is expected to reduce natural gas consumption in low-rise and single family residences by an average of 4.7% and 9.4%, respectively, compared to the 2016 Title 24.
- Rooftop photovoltaic systems are expected to fulfill all electricity and lighting needs for low-rise and single family residences, hence electricity and lighting intensities are assumed to be zero for these units.
- Size unit for parking structure is expressed as kWh per space for electricity use, and kBtu per space for natural gas use.
- Energy use rates shown here are used as input values to CalEEMod Operational Energy Use section for the unmitigated analysis.
- As a Project design feature, 25% of all residential units will have no natural gas usage (75% will retain usage) and these units are assumed to be electrified. Thus, a 25% reduction in natural gas intensity is applied to all residential land uses, and estimated reduction in natural gas usage was converted to electricity assuming a conversion of 3.41214 kBtu per kWh.
- The energy use rates shown here are the weighted average of historical and non-historical CalEEMod energy use rates, proportional to each land use's historical and non-historical land use sizes. The 25% reduction in natural gas and subsequent increase in electricity is applied to these weighted averages in order to obtain the final unmitigated energy use rates. The land use size split between new buildings (non-historical) and existing buildings (historical) are shown in Table A1.
- Energy use rates shown here are used as input values to CalEEMod Operational Energy Use section for the mitigated analysis.
- In order to estimate emissions adjustments from exclusion of natural gas-powered water and space heaters, CalEEMod natural gas use rates (both Title 24 and Non-Title 24) are reduced by the percentages shown, specific to each land use. These percentages represent the portion of total natural gas energy use attributed to water and space heating, as shown in Table A11 for general land use types. To account for this reduction in natural gas energy use, CalEEMod Title24 electricity use rates are increased by the amount shown; electricity quantities shown here are the sum of average annual electricity use from water and space heating, specific to general land uses (shown in Table A11). Adjustments from this mitigation measure are applied to unmitigated energy intensities shown above.

Abbreviations:

DU - Dwelling Unit	sq ft - square foot
kBTU - thousand British thermal units	T24 - Title 24
kWh - kilowatt hour	

References:

- CEC. 2019. California's Energy Efficiency Standards for Residential and Nonresidential Buildings. Available online at: <https://www.energy.ca.gov/title24/2019standards/>
 CEC. 2019. 2019 Title 24 Impact Analysis. Available online at: https://ww2.energy.ca.gov/title24/2019standards/post_adoption/documents/2019_Impact_Analysis_Final_Report_2018-06-29.pdf

California Energy Commission. 2018. 2019 Building Energy Efficiency Standards Frequently Asked Questions. Available at: https://www.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf

NORESCO. 2018. Impact Analysis: 2019 Update to the California Energy Efficiency Standards for Residential and Non-Residential Buildings. Available at: https://ww2.energy.ca.gov/title24/2019standards/post_adoption/documents/2019_Impact_Analysis_Final_Report_2018-06-29.pdf

CalEEMod® 2016.3.2 Available Online at: <http://www.caleemod.com>

**Table A15
CalEEMod Energy Use Rates - Commercial Heavy
Point Molate
Richmond, CA**

CalEEMod Energy Use Rates (including 2019 Title 24 adjustments and rooftop PV for low-rise and single family homes)

Land Use Type	Historical ¹					Non-Historical (2019 Title 24) ²				
	T24 Electricity	NT24 Electricity	Lighting Electricity	T24 Natural Gas	NT24 Natural Gas	T24 Electricity	NT24 Electricity	Lighting Electricity	T24 Natural Gas	NT24 Natural Gas
	kWhr per DU or sq ft			kBtu per DU or Sq ft		kWhr per DU or sq ft			kBtu per DU or Sq ft	
Apartment Low-Rise ³	143	2,631	810	22,211	2,753	0	0	0	16,901	2,615
Apartment Mid-Rise	389	2,562	741	7,733	1,662	384	3,054	667	5,828	2,615
Single Family Units ³	322	5,096	1,609	49,808	6,193	0	0	0	35,976	2,615
Regional Shopping Center	2.9	3.4	5.9	5.0	1.0	2.0	3.4	4.4	4.0	1.0
Quality Restaurant	3.4	21	6.5	43	128	2.4	21	4.8	40	128
Office Park	5.7	4.8	4.2	21	1.0	3.8	4.8	3.1	17	1.0
City Park	0	0	0	0	0	0	0	0	0	0
Convenience Market (24 hr)	2.9	3.4	5.9	5.0	1.0	2.0	3.4	4.4	4.0	1.0
Unenclosed Parking Structure ⁴	0	0	2.6	0	0	0	0	1.1	0	0

Unmitigated CalEEMod Energy Use Rates (Adjusted for 25% reduction in residential natural gas use)⁵

Land Use Type	Project Design Feature Energy Changes ⁵			Adjusted Unmitigated Energy Use Rates ⁷				
	% Natural Gas Reduction (T24 and NT24)	Additional T24 Electricity Use to Replace NG Reduction	kWhr per DU	T24 Electricity	NT24 Electricity	Lighting Electricity	T24 Natural Gas	NT24 Natural Gas
				kWhr per DU or sq ft			kBtu per DU or Sq ft	
Apartment Low-Rise	25%	1,430	1,430	0	0	12,676	1,961	
Apartment Mid-Rise		0,619	1,002	3,054	667	4,371	1,961	
Single Family Units		2,827	2,827	0	0	26,982	1,961	
Office Park	--	--	4.9	4.8	3.8	19.4	1.0	
Regional Shopping Center	--	--	2.5	3	5.1	4	1	
Quality Restaurant	--	--	3	21	6	41	128	
City Park	--	--	0	0	0	0	0	
Bay Trail Development	--	--	0.0	0.0	0.0	0.0	0.0	
Terminal on existing Pier	--	--	2.9	3.4	5.9	5.0	1.0	
Unenclosed Parking Structure ⁴	--	--	0	0	1.1	0	0	

Mitigated CalEEMod Energy Use Rates (Further adjusted for replacement of NG space and water heating with electric appliances)⁸

Land Use Type	Mitigation Measure Energy Changes ⁹			Mitigated Energy Use Rates ⁸				
	% T24 Natural Gas Reduction	Additional T24 Electricity Use to Replace NG Reduction	kWhr per DU Reduction	T24 Electricity	NT24 Electricity	Lighting Electricity	T24 Natural Gas	NT24 Natural Gas
				kWhr per DU or sq ft			kBtu per DU or Sq ft	
Apartment Low-Rise	88%	2,113	3,543	0	0	1,467	1,961	
Apartment Mid-Rise	88%	2,113	3,115	3,054	667	506	1,961	
Single Family Units	91%	4,340	7,167	0	0	2,341	1,961	
Office Park	97%	0.927	5.9	4.8	3.8	0.6	1.0	
Regional Shopping Center	88%	0.928	3.4	3	5.1	1	1	
Quality Restaurant	26%	2	5	21	6	31	128	
City Park	0	0	0	0	0	0	0	
Bay Trail Development	0	0	0.0	0.0	0.0	0.0	0.0	
Terminal on existing Pier	88%	0.93	3.8	3.4	5.9	0.6	1.0	
Unenclosed Parking Structure ⁴	0	0	0	0	1.1	0	0	

Notes:

- Historical energy intensities are determined using the historical default values from CalEEMod (adjustment to 2005 standards).
- Updates to 2019 Title 24 requirements become effective on January 1, 2020 and include a requirement for solar photovoltaic systems for new homes, additional high efficiency lighting requirements, high performance attic and walls, higher efficiency water and space heaters, and high efficiency air filters. Relative to CalEEMod default 2016 energy use rates, the 2019 standards are expected to reduce non-residential electricity consumption by approximately 10.7% and natural gas consumption by 1%. Increased efficiency required in 2019 Title 24 is expected to reduce natural gas consumption in low-rise and single family residences by an average of 4.7% and 9.4%, respectively, compared to the 2016 Title 24.
- Rooftop photovoltaic systems are expected to fulfill all electricity and lighting needs for low-rise and single family residences, hence electricity and lighting intensities are assumed to be zero for these units.
- Size unit for parking structure is expressed as kWh per space for electricity use, and kBtu per space for natural gas use.
- Energy use rates shown here are used as input values to CalEEMod Operational Energy Use section for the unmitigated analysis.
- As a Project design feature, 25% of all residential units will have no natural gas usage (75% will retain usage) and these units are assumed to be electrified. Thus, a 25% reduction in natural gas intensity is applied to all residential land uses, and estimated reduction in natural gas usage was converted to electricity assuming a conversion of 3.41214 kBtu per kWh.
- The energy use rates shown here are the weighted average of historical and non-historical CalEEMod energy use rates, proportional to each land use's historical and non-historical land use sizes. The 25% reduction in natural gas and subsequent increase in electricity is applied to these weighted averages in order to obtain the final unmitigated energy use rates. The land use size split between new buildings (non-historical) and existing buildings (historical) are shown in Table A2.
- Energy use rates shown here are used as input values to CalEEMod Operational Energy Use section for the mitigated analysis.
- In order to estimate emissions adjustments from exclusion of natural gas-powered water and space heaters, CalEEMod natural gas use rates (both Title 24 and Non-Title 24) are reduced by the percentages shown, specific to each land use. These percentages represent the portion of total natural gas energy use attributed to water and space heating, as shown in Table A11 for general land use types. To account for this reduction in natural gas energy use, CalEEMod Title24 electricity use rates are increased by the amount shown; electricity quantities shown here are the sum of average annual electricity use from water and space heating, specific to general land uses (shown in Table A11). Adjustments from this mitigation measure are applied to unmitigated energy intensities shown above.

Abbreviations:

DU - Dwelling Unit	sq ft - square foot
kBTU - thousand british thermal units	T24 - Title 24
kWh - kilowatt hour	

References:

- CEC. 2019. California's Energy Efficiency Standards for Residential and Nonresidential Buildings. Available online at: <https://www.energy.ca.gov/title24/2019standards/>
- CEC. 2019. 2019 Title 24 Impact Analysis. Available online at: https://ww2.energy.ca.gov/title24/2019standards/post_adoption/documents/2019_Impact_Analysis_Final_Report_2018-06-29.pdf
- California Energy Commission. 2018. 2019 Building Energy Efficiency Standards Frequently Asked Questions. Available at: https://www.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf
- NORESCO. 2018. Impact Analysis: 2019 Update to the California Energy Efficiency Standards for Residential and Non-Residential Buildings. Available at: https://ww2.energy.ca.gov/title24/2019standards/post_adoption/documents/2019_Impact_Analysis_Final_Report_2018-06-29.pdf
- CalEEMod@ 2016.3.2 Available Online at: <http://www.caleemod.com>

**Table A16
Solid Waste Generation Rates
Point Molate
Richmond, CA**

Solid Waste Generation Rates - Project 1 (Residential Heavy)

Land Use Type	Size	Units	CalEEMod Default Solid Waste Generation Rate (tons/year)	Project-specific Solid Waste Generation Rate (lb/day) ¹	Project-specific Solid Waste Generation Rate (tons/year) ¹	Updated Solid Waste Generation Rate, scaled by DU/sq ft (tons/year) ²
Apartments Low Rise	636	Dwelling Unit	292.56	24,949	4,553	1,420
Apartments Mid Rise	1,130	Dwelling Unit	519.80			2,522
Single Family Housing	274	Dwelling Unit	329.28			612
City Park	33	Acre	2.81	0	0	2.81
Convenience Market (24 Hour)	5,000	sq ft	15.03	0	0	15.03
Quality Restaurant	20,000	sq ft	18.25	200	36.5	18.25
Regional Shopping Center	20,000	sq ft	21.00			18.25
Unenclosed Parking Structure	100	Space	0	0	0	0
Total			1,199	25,149	4,590	4,608

Solid Waste Generation Rates - Project 2 (Commercial Heavy)

Land Use Type	Size	Units	CalEEMod Default Solid Waste Generation Rate (tons/year)	Project-specific Solid Waste Generation Rate (lb/day) ¹	Project-specific Solid Waste Generation Rate (tons/year) ¹	Updated Solid Waste Generation Rate, scaled by DU/sq ft (tons/year) ²
Apartments Low Rise	636	Dwelling Unit	310.96	15,410	2,812	1,420
Apartments Mid Rise	350	Dwelling Unit	161			781
Single Family Housing	274	Dwelling Unit	329.28			612
City Park	33	Acre	2.81	0	0	2.81
Convenience Market (24 Hour)	5,000	sq ft	15.03	0	0	15.03
Office Park	584,572	sq ft	543.65	2,923	533	533
Quality Restaurant	20,000	sq ft	18.25	200	36.5	18.25
Regional Shopping Center	20,000	sq ft	21			18.25
Unenclosed Parking Structure	100	Space	0	0	0	0
Total			1,402	18,533	3,382	3,400

Notes:

- Project-specific solid waste generation rates are presented in the Point Molate Mixed-use Development Project Draft SEIR Table 3-2.
- Updated solid waste generation rates are calculated by scaling general Project-specific waste generation rates by size of each land use sub-type. CalEEMod default solid waste generation rates are conservatively retained for open space ('City Park') and water transit terminal ('Convenience Market') land uses, as waste generation rates for these land uses are not detailed in the Project Draft SEIR.

Abbreviations:

DU - dwelling unit
lb - pounds

SEIR - Subsequent Environmental Impact Report
sq ft - square foot

**Table EF1
Energy Usage Emission Factors
Point Molate
Richmond, CA**

Historical Electricity Intensity

Annual Electricity Data	2016	2017	2018	Average ¹	Units
CO ₂ Intensity Factor per Total Energy Delivered ²	294	210	206	237	lbs CO ₂ /MWh delivered
% of Total Energy From RPS-Eligible Renewables ³	0.33	0.33	0.39	0.35	-
CO ₂ Intensity Factor per Total Non-RPS-Eligible Energy ⁴	437	314	338	364	lbs CO ₂ /MWh delivered

Estimated Intensity Factor for Total Energy Delivered^{5,6}

Model Year	2016	2017	2018	Average ¹	Units
2020 RPS (33%)	293	210	226	244	lbs CO ₂ /MWh delivered
	295	212	228	246	lbs CO ₂ e/MWh delivered
2030 RPS (60%) ⁷	175	126	135	145	lbs CO ₂ /MWh delivered
	177	128	137	148	lbs CO ₂ e/MWh delivered
2045 RPS (100%) ⁷	0	0	0	0	lbs CO ₂ /MWh delivered
	2.0	2.0	2.0	2.0	lbs CO ₂ e/MWh delivered

Greenhouse Gas Energy Emission Factors

Greenhouse Gas	CO ₂	CH ₄	N ₂ O	CO ₂ e	Units
Global Warming Potential ⁶	1.0	25	298	-	-
2019 (Existing) Electricity Use Emission Factor ⁷	242	0.033	0.004	244	lb/MWh
	0.11	1.5E-05	1.8E-06	0.11	MT/MWh
2020 Electricity Use Emission Factor ⁷	244	0.033	0.004	246	lb/MWh
	0.11	1.5E-05	1.8E-06	0.11	MT/MWh
2024 (First Year of Operation) Electricity Use Emission Factor ⁷	204	0.033	0.004	206	lb/MWh
	0.09	1.5E-05	1.8E-06	0.09	MT/MWh
2028 (Full Buildout) Electricity Use Emission Factor ⁷	165	0.033	0.004	167	lb/MWh
	0.07	1.5E-05	1.8E-06	0.08	MT/MWh
Natural Gas Use Emission Factor ⁸	118	0.0023	0.0022	118	lb/MMBTU
	0.0053	1.0E-07	9.8E-08	0.0054	MT/therm

Notes:

1. Total CO₂ emission factor from The Climate Registry.
2. Percent of total energy from eligible renewables is from the PG&E 2017, 2018, and 2019 Corporate Responsibility Reports.
3. This average uses the most recent three years of data.
4. The emissions metric presented here is calculated based on the total CO₂ intensity factor divided by the percent of energy delivered from non-RPS-eligible renewable sources. This CO₂ intensity factor includes both fossil fuel and carbon-free sources of energy, such as largescale hydro and nuclear. Diablo Canyon Nuclear Plant, which accounts for a portion of the carbon-free energy in this CO₂ intensity factor, is planned to be closed by 2024-2025. According to SB 1090 (approved 9/2018), "The [California Public Utilities] commission shall ensure that integrated resource plans are designed to avoid any increase in emissions of greenhouse gases as a result of the retirement of the Diablo Canyon Units 1 and 2 powerplant." This was incorporated into CPUC section 712.7(2)(b). Based on this information, the total Non-RPS-Eligible energy CO₂ intensity factor was assumed to remain constant.
5. The intensity factor for total energy delivered is estimated by multiplying the percentage of energy delivered from non-RPS-eligible renewable energy by the CO₂ emissions per total non-RPS-eligible renewable energy metric calculated above. The estimate provided here and the energy reports issued by PG&E assume that RPS-eligible renewable energy sources do not result in any CO₂ emissions.
6. Global Warming Potentials (GWP) are based on the IPCC Fourth Assessment Report, and are used within version 2016.3.2 of CalEEMod® to report Carbon Dioxide Equivalent emissions estimates.

**Table EF1
Energy Usage Emission Factors
Point Molate
Richmond, CA**

Notes, Continued:

⁷ The intensity factor for total energy delivered is estimated by multiplying the percentage of energy delivered from non-RPS-eligible renewable energy by the CO₂ emissions per total non-RPS-eligible renewable energy metric from PG&E 2015 through 2017 data. The requirements at each Renewable Portfolio Standard (RPS) milestone year are used as a conservative representation of emissions in the relevant operational year; 2024 (44%) toward achieving 60% RPS in 2030 consistent with SB 100. Estimates for 2028 are interpolated based on the RPS milestones between 2024 and 2030. The estimate provided here and the energy reports issued by PG&E assume that RPS-eligible renewable energy sources do not result in any CO₂ emissions. CH₄ and N₂O emission factors are from eGRID2018 (Table 1 for the CAMX subregion), and are conservatively assumed not to change from these estimates. As more renewable energy is integrated into the electricity grid, these intensity factors will also decrease.

Abbreviations:

CalEEMod [®] - California Emissions Estimator Model	MMBtu - million British Thermal Units
CH ₄ - methane	MT - metric ton(s)
CO ₂ - carbon dioxide	MWh - megawatt-hour
CO ₂ e - carbon dioxide equivalents	N ₂ O - nitrous oxide
CPUC - California Public Utilities Commission	NOx - nitrogen oxides
eGRID - Emissions & Generation Resource Integrated Database	PG&E - Pacific Gas & Electric
GWP - global warming potential	PM - particulate matter
IPCC AR4 - Intergovernmental Panel on Climate Change Fourth Assessment Report	ROG - reactive organic gases
lb - pound(s)	RPS - Renewable Portfolio Standard
	SB - Senate Bill

References:

- The Climate Registry. Available at: <https://www.theclimateregistry.org/our-members/cris-public-reports/>. Accessed: September 2019.
- California Air Pollution Control Officers Association (CAPCOA). California Emissions Estimator Model (CalEEMod[®]), Version 2016.3.2. Available online at <http://www.caleemod.com/>
- IPCC. 2007. AR4 Climate Change 2007: The Physical Science Basis. Available online at: <https://www.ipcc.ch/report/ar4/wg1/>
- PGE 2017 Corporate Responsibility and Sustainability Report. Available at: http://www.pgecorp.com/corp_responsibility/reports/2017/assets/PGE_CRSR_2017_Environment.pdf.
- PGC 2018 Corporate Responsibility and Sustainability Report. Available at: http://www.pgecorp.com/corp_responsibility/reports/2018/assets/PGE_CRSR_2018.pdf
- PGE 2019 Corporate Responsibility and Sustainability Report. Available at: http://www.pgecorp.com/corp_responsibility/reports/2019/assets/PGE_CRSR_2019.pdf
- Diablo Canyon Decommissioning Engagement Panel. Available at: https://www.pge.com/en_US/safety/how-the-system-works/diablo-canyon-power-plant/diablo-canyon-power-plant/engagement-panel.page
- SB-100 California Renewables Portfolio Standard Program. Available at: https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB100
- USEPA. 2018. eGRID2016 Summary Tables. Available at: <https://www.epa.gov/energy/emissions-generation-resource-integrated-database-egrid>.

Table EF2
Road Silt Loading Emission Factor
Point Molate
Richmond, California

Entrained Roadway Dust Constants for Contra Costa County		
Roadway Category	Silt Loading¹ (g/m²)	Travel Fraction¹
Freeway	0.015	52%
Major	0.032	33%
Collector	0.032	7%
Local	0.32	8%
Weighted Silt Loading Factor	0.047	100%

Notes:

¹. Travel fraction by roadway category and silt loading is from the ARB's Entrained Road Travel Emission Inventory Source Methodology, Tables 6 and 7, respectively.

Abbreviations:

g - gram(s)
m - meter

References:

California Air Resources Board. 2018. Miscellaneous Process Methodology 7.9, Entrained Road Travel, Paved Road Dust. March. Available online at: https://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9_2018.pdf

Table M1
GHG Emissions Reduction for Residential Electric Vehicle Charging Stations
Project 1 - Residential Heavy
Point Molate, Richmond, CA

Estimating GHG Emissions Reduction from Replacement of Internal Combustion Engine with Electric Vehicle		
PG&E Electricity Emission Factor ¹	0.09	(MT CO ₂ e/MWh)
Fuel Economy of Electric Vehicle ²	0.25	(KWh/mile)
Electric Vehicle GHG Emissions	23	(gms/mile)
GHG Emissions for the Residential Miles Traveled as Estimated by CalEEMod ^{®3}	337	(gms/mile)
GHG Emissions Reduction from Additional Electric Vehicles, per mile	314	(gms/mile)
Estimating Project Residential-Related Traffic GHG Emissions		
Single Family Residential Average Yearly VMT, after TDMs ⁴	3,775,297	(miles/year)
Percent of Single Family Residential Miles Driven in Electric Vehicles due to This Measure ⁵	10%	
Residential VMT that is Displaced by EVs due to This Measure	377,530	(miles/year)
Estimated Benefit from Residential EV Chargers		
GHG Emissions Reduction from Residential Electric Vehicles ⁶	118	(MT CO ₂ e/year)

Notes:

- CO₂e intensity factor for PG&E accounts for the 44% projected RPS for 2024, consistent with SB 100.
- National Renewable Energy Laboratory (NREL). 2018. California Plug-In Electric Vehicle Infrastructure Projections: 2017-2025 (Table C.1). Available at: <https://www.nrel.gov/docs/fy18osti/70893.pdf>. Accessed: November 2019.
- The emissions factor (337 gms/mile) is consistent with the CalEEMod[®] input, and includes default reductions for the ACC Program and Pavley Standards. The emissions factor also is consistent with EMFAC2017's total exhaust emission rate for CO₂e for vehicles in Contra Costa County, as aggregated for all models and speeds, and averaged over all seasons for 2024. To ensure that the Project mitigation's emissions reduction benefit does not take credit for EVs that EMFAC2017 already forecasts will be part of the vehicle fleet, the emissions factor and emissions inventory includes the existing EVs. CalEEMod[®] conservatively includes medium- and heavy-duty vehicle emissions factors proportional to EMFAC2017's default fleet mix when calculating mobile emissions for all land use types.

 Calculation methodology from EMFAC2017 output: Weighted average exhaust emissions CO₂ (g/mi) = CO₂ exhaust EF (g/day) ÷ Vehicle Miles Traveled (mi/day)
 - EF from CalEEMod[®], used in calculation: 337 g/mi
 - EF if no EVs were included in CalEEMod[®]: 344 g/mi
 Available at: <http://www.arb.ca.gov/emfac/>. Accessed: February 2020.
- VMT from CalEEMod[®] modeling is further reduced by 13% to account for a total TDM reduction of 23%, prior to taking credit for the Residential EV Charger mitigation measure.
- The Project conservatively assumes that 10% of single family residential VMT will be replaced by electric vehicles due to availability of EV Charging.
- Calculated by multiplying the GHG reduction per mile from additional EVs by the miles displaced by EVs due to this measure.

Abbreviations:

ACC - Advanced Clean Cars	GHG - greenhouse gases
CalEEMod [®] - CALifornia Emissions Estimator MODel	kWh - kilowatt-hour
CH ₄ - methane	mi - mile
CO ₂ - carbon dioxide	MT - metric tonnes
CO ₂ e - carbon dioxide equivalents	MWh - megawatt-hour
EF - emission factor	N ₂ O - nitrous oxide
EMFAC - California Air Resources Board Emissions Factor Model	TDM - Transportation Demand Management
EV - electric vehicle	VMT - vehicle miles traveled
g/gms - gram	

Table M2
Criteria Air Pollutant Emissions Reduction for Residential Electric Vehicle Charging Stations
Project 1 - Residential Heavy
Point Molate, Richmond, CA

I. Exhaust Emission Factors (g/mile)^{1, 2}

	VOC	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
Fleet	0.059	0.21	1.05	0.0033	0.0026	0.0024

Residential VMT that is Displaced by EVs due to This Measure³

377,530 (miles/year)

II. Emission Reductions (lb/day)⁴

VOC	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
0.1	0.5	2	0.01	0.01	0.01

Notes:

1. Fleet-wide emission factors based on EMFAC 2017, for calendar year 2024 in Contra Costa County. Fleet-wide factors are used to be consistent with the CalEEMod[®] methodology used to develop the emissions inventory.
2. For emission factor determination, emissions from exhaust of the full fleet are included. Idling losses, resting losses and diurnal losses were not included in emission factor calculations. VOC emissions from these factors for conventional vehicles are considerably higher than electric vehicles, and thus this assumption is conservative. Emissions from break wear and tire wear are excluded because they will be roughly the same for the full fleet and electric vehicle fleet.
3. See Table M1 for detailed calculations of the estimated VMT to be driven by electric vehicles due to this measure.
4. Emission reduction calculations are based on VMT estimated to be driven by electric vehicles due to this measure.

Abbreviations:

CalEEMod[®] - CALifornia Emissions Estimator MODEL
CO - carbon monoxide
EMFAC - Emission FACtors model
EV - electric vehicle
g - gram
GHG - greenhouse gas
lb - pound

NO_x - oxides of nitrogen
PM₁₀ - particulate matter less than 10 microns in diameter
PM_{2.5} - particulate matter less than 2.5 microns in diameter
SO_x - sulfur oxide
VOC - volatile organic compounds
VMT - vehicles miles traveled

Table M3
GHG Emissions Reductions for Commercial Development Area Electric Vehicle Charging Stations
Project 1 - Residential Heavy
Point Molate, Richmond, CA

Estimating GHG Emissions Reduction to Replace Internal Combustion Engine Vehicle with Electric Vehicle		
PG&E electricity emission factor ¹	0.09	(MT CO ₂ e/MWh)
Fuel Economy of Electric Vehicle ²	0.25	(kWh/mile)
Electric Vehicle GHG Emissions ³	23	(gms/mile)
Gasoline/Diesel CO ₂ e emission while running ⁴	272	(gms/mile)
GHG Emissions Reduction from Additional Electric Vehicles, per mile	249	(gms/mile)
Charge Rate ⁵	6.25	(kW = kWh/hr)
Number of Hours of Charging per Station per Year ⁵	730	(hours)
Annual VMT Displacement per Parking Spot ⁵	18,250	(miles/charging station/year)
GHG Reduction per Parking Space with Charging per Year	5	(MT CO ₂ e/charging station/year)
Estimated Benefit from Installing Commercial Electric Vehicle Charging Stations		
Number of On-Site Commercial Parking Spots Provided Chargers ⁶	26	(charging stations)
Annual VMT Displacement at On-Site Commercial Stations (Based on Charge)	474,500	(miles/year)
GHG Emissions Reduction from On-Site Commercial Parking Spots ⁷	118	(MT CO ₂ e/year)

Notes:

1. CO₂e intensity factor for PG&E accounts for the 44% projected RPS for 2024, consistent with SB 100.
2. National Renewable Energy Laboratory (NREL), 2018. California Plug-In Electric Vehicle Infrastructure Projections: 2017-2025 (Table C.1). Available at: <https://www.nrel.gov/docs/fy18osti/70893.pdf>. Accessed: November 2019.
3. Electric vehicle GHG emissions per mile are estimated based on the PG&E electricity emission factor (MT CO₂e/MWh) and the fuel economy of electric vehicles (KWh/mile).
4. CARB, 2015. EMFAC2017, running and starting exhaust emission rate for CO₂ and CH₄ for light duty gasoline- and diesel-powered vehicles in Contra Costa County, aggregated for all models and speeds, averaged over all seasons for 2024. Emission rate includes reductions for Advanced Clean Cars (ACC) and Pavley, though based on the USEPA SAFE rule, this is likely a conservative assumption and the fleet replaced with EVs will be higher-emitting than shown here. Available at: <http://www.arb.ca.gov/emfac/>. Accessed: February 2020.
5. Annual VMT displacement per parking spot is the total kWh per year multiplied by the fuel economy in miles per kWh. This is equivalent to two hours of charge time per day for a Level 2 charging station that charges at a rate of 25 driving range per hour.
6. Number of charging stations based on installing chargers for the spaces the 2019 CalGreen Tier 1 standards would otherwise require to be "EV-Capable". This assumes 26 parking spaces will be serviced by a charging station. The Project assumes that each commercial land use will have its own parking lots and all parking, including historic buildings will be new. Existing parking is not subject to CalGreen standards.
7. GHG emissions reductions are calculated as the difference between GHG emissions of gasoline/diesel vehicles and GHG emissions of electric vehicles multiplied by the annual VMT displacement charging stations.

Abbreviations:

CARB - California Air Resources Board	GHG - greenhouse gases
CH ₄ - methane	gms - grams
CO ₂ - carbon dioxide	kWh - kilowatt-hour
CO ₂ e - carbon dioxide equivalents	MT - metric tonnes
EIR - Environmental Impact Report	MWh - megawatt-hour
EMFAC - California Air Resources Board Emissions Factor Model	TDM - Transportation Demand Management
EV - electric vehicle	VMT - vehicle miles traveled

Table M4
Criteria Air Pollutant Emissions Reductions for Commercial Development Area Electric Vehicle Charging Stations
Project 1 - Residential Heavy
Point Molate, Richmond, CA

Estimating VMT Displacement from Replacement of Internal Combustion Engine with Electric Vehicle		
Description	Value	Units
Fuel Economy of Electric Vehicle ¹	0.25	(kWh/mile)
Charge Rate ²	6.25	(kW = kWh/hr)

Estimating VMT Replaced by Electric Vehicles		
Description	Value	Units
Number of On-Site Commercial Parking Spots Provided Chargers ³	26	(parking spaces)
Number of Hours of Charging per Station per Year ⁴	730	(hours/year)
Annual VMT Displacement from Stations (Based on Charge) ⁴	18,250	(miles/charging station/year)
Annual VMT Displacement at On-Site Commercial Stations (Based on Charge)	474,500	(miles/year)

Emissions Reductions						
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Vehicle Emission Factor (g/mile) ⁵	0.039	0.066	0.90	0.003	0.0016	0.0015
Emissions Reduction for Gasoline/Diesel Vehicles (lb/day)	0.1	0.2	2.6	7.71E-03	4.63E-03	4.26E-03

Notes:

1. National Renewable Energy Laboratory (NREL). 2018. California Plug-In Electric Vehicle Infrastructure Projections: 2017-2025 (Table C.1). Available at: <https://www.nrel.gov/docs/fy18osti/70893.pdf>. Accessed: November 2019.
2. Estimated charge rate of 6.25 kW based on capability of existing battery-electric vehicles and Level 2 charging stations.
3. Number of charging stations based on installing chargers for the spaces according to the 2019 CalGreen Tier 1 standards would otherwise require to be "EV-Capable". This assumes 26 parking spaces will be serviced by a charging station. The Project assumes that each commercial land use will have its own parking lot and all parking, including historic buildings will be new. Existing parking is not subject to CalGreen standards.
4. Annual VMT displacement per parking spot is the total kWh per year multiplied by the fuel economy in miles per kWh. This is equivalent to two hours of charge time per day for a Level 2 charging station that charges at a rate of 25 driving range per hour.
5. Emission Factors were based on EMFAC2017 for calendar year 2024 in Contra Costa County. Emission Factors were weighted according to LDA, LDT1 and LDT2 fleet-mix VMT and trips. Only emissions from exhaust are included. All other emissions including heat soak, diurnal, tire wear, break wear, etc. are not considered as these emissions are also expected to occur for electric vehicles. However, emissions from these sources from the conventional fuel fleet are considerably higher than electric vehicles, and thus this omission is conservative. Based on the USEPA SAFE rule, the fleet replaced with EVs will be higher-emitting than shown here, which if incorporated, would increase the GHG benefits of this measure.

Abbreviations:

CAP - criteria air pollutant	lb - pound	SO _x - sulfur oxide
CARB - California Air Resources Board	kWh - kilowatt-hour	PM ₁₀ - particulate matter less than 10 microns in diameter
EIR - Environmental Impact Report	LDA - Light Duty Auto (passenger cars)	PM _{2.5} - particulate matter less than 2.5 microns in diameter
EMFAC - Emission FACTors model	LDT - Light Duty trucks	VOC - volatile organic compounds
EV - electric vehicle	NO _x - oxides of nitrogen	VMT - vehicles miles traveled

g - gram

Table M5
GHG Emissions Reduction for Residential Electric Vehicle Charging Stations
Project 2 - Commercial Heavy
Point Molate, Richmond, CA

Estimating GHG Emissions Reduction from Replacement of Internal Combustion Engine with Electric Vehicle		
PG&E Electricity Emission Factor ¹	0.09	(MT CO ₂ e/MWh)
Fuel Economy of Electric Vehicle ²	0.25	(kWh/mile)
Electric Vehicle GHG Emissions	23	(gms/mile)
GHG Emissions for the Residential Miles Traveled as Estimated by CalEEMod ^{®3}	337	(gms/mile)
GHG Emissions Reduction from Additional Electric Vehicles, per mile	314	(gms/mile)
Estimating Project Residential-Related Traffic GHG Emissions		
Single Family Residential Average Yearly VMT, after TDMS ⁴	3,775,297	(miles/year)
Percent of Single Family Residential Miles Driven in Electric Vehicles due to This Measure ⁵	10%	
Residential VMT that is Displaced by EVs due to This Measure	377,530	(miles/year)
Estimated Benefit from Residential EV Chargers		
GHG Emissions Reduction from Residential Electric Vehicles ⁶	118	(MT CO ₂ e/year)

Notes:

- CO₂e intensity factor for PG&E accounts for the 44% projected RPS for 2024 consistent with SB 100. For purposes of this analysis, zero emission vehicles are assumed to be electric vehicles.
 - National Renewable Energy Laboratory (NREL). 2018. California Plug-In Electric Vehicle Infrastructure Projections: 2017-2025 (Table C.1). Available at: <https://www.nrel.gov/docs/fy18osti/70893.pdf>. Accessed: November 2019.
 - The emissions factor (337 gms/mile) is consistent with the CalEEMod[®] input, and includes default reductions for the ACC Program and Pavley Standards. The emissions factor also is consistent with EMFAC2017's total exhaust emission rate for CO₂e for vehicles in Contra Costa County, as aggregated for all models and speeds, and averaged over all seasons for 2024. To ensure that the Project mitigation's emissions reduction benefit does not take credit for EVs that EMFAC2017 already forecasts will be part of the vehicle fleet, the emissions factor and emissions inventory includes the existing EVs. CalEEMod[®] conservatively includes medium- and heavy-duty vehicle emissions factors proportional to EMFAC2017's default fleet mix when calculating mobile emissions for all land use types.
- Calculation methodology from EMFAC2017 output: Weighted average exhaust emissions CO₂ (g/mi) = CO₂ exhaust EF (g/day) ÷ Vehicle Miles Traveled (mi/day)
- EF from CalEEMod[®], used in calculation: 337 g/mi
 - EF if no EVs were included in CalEEMod[®]: 344 g/mi
- Available at: <http://www.arb.ca.gov/emfac/>. Accessed: February 2020.
- VMT from CalEEMod[®] modeling is further reduced by 13% to account for a total TDM reduction of 23%, prior to taking credit for the Residential EV Charger mitigation measure.
 - The Project conservatively assumes that 10% of single family residential VMT will be replaced by electric vehicles due to availability of EV Charging.
 - Calculated by multiplying the GHG reduction per mile from additional EVs by the miles displaced by EVs due to this measure.

Abbreviations:

ACC - Advanced Clean Cars	GHG - greenhouse gases
CalEEMod [®] - CALifornia Emissions Estimator MODel	kWh - kilowatt-hour
CH ₄ - methane	mi - mile
CO ₂ - carbon dioxide	MT - metric tonnes
CO ₂ e - carbon dioxide equivalents	MWh - megawatt-hour
EF - emission factor	N ₂ O - nitrous oxide
EMFAC - California Air Resources Board Emissions Factor Model	TDM - Transportation Demand Management
EV - electric vehicle	VMT - vehicle miles traveled
g/gms - gram	

**Table M6
Criteria Air Pollutant Emissions Reduction for Residential Electric Vehicle Charging Stations
Project 2 - Commercial Heavy
Point Molate, Richmond, CA**

I. Exhaust Emission Factors (g/mile)^{1, 2}

	VOC	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
Fleet	0.059	0.21	1.05	0.0033	0.0026	0.0024

Residential VMT that is Displaced by EVs due to This Measure³

377,530 (miles/year)

II. Emission Reductions (lb/day)⁴

VOC	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
0.1	0.5	2	0.01	0.01	0.01

Notes:

- ^{1.} Fleet-wide emission factors based on EMFAC 2017, for calendar year 2024 in Contra Costa County. Fleet-wide factors are used to be consistent with the CalEEMod[®] methodology used to develop the emissions inventory.
- ^{2.} For emission factor determination, emissions from exhaust of the full fleet are included. Idling losses, resting losses and diurnal losses were not included in emission factor calculations. VOC emissions from these factors for conventional vehicles are considerably higher than electric vehicles, and thus this assumption is conservative. Emissions from break wear and tire wear are excluded because they will be roughly the same for the full fleet and electric vehicle fleet.
- ^{3.} See Table M5 for detailed calculations of the estimated VMT to be driven by electric vehicles due to this measure.
- ^{4.} Emission reduction calculations are based on VMT estimated to be driven by electric vehicles due to this measure.

Abbreviations:

CalEEMod [®] - CALifornia Emissions Estimator MOD	NO _x - oxides of nitrogen
CO - carbon monoxide	PM ₁₀ - particulate matter less than 10 microns in diameter
EMFAC - Emission FACtors model	PM _{2.5} - particulate matter less than 2.5 microns in diameter
EV - electric vehicle	SO _x - sulfur oxide
g - gram	VOC - volatile organic compounds
GHG - greenhouse gas	VMT - vehicles miles traveled
lb - pound	

Table M7
GHG Emissions Reductions for Commercial Development Area Electric Vehicle Charging Stations
Project 2 - Commercial Heavy
Point Molate, Richmond, CA

Estimating GHG Emissions Reduction to Replace Internal Combustion Engine Vehicle with Electric Vehicle		
PG&E electricity emission factor ¹	0.09	(MT CO ₂ e/MWh)
Fuel Economy of Electric Vehicle ²	0.25	(kWh/mile)
Electric Vehicle GHG Emissions ³	23	(gms/mile)
Gasoline/Diesel CO ₂ e emission while running ⁴	272	(gms/mile)
GHG Emissions Reduction from Additional Electric Vehicles, per mile	249	(gms/mile)
Charge Rate ⁵	6.25	(kW = kWh/hr)
Number of Hours of Charging per Station per Year ⁵	730	(hours)
Annual VMT Displacement per Parking Spot ⁵	18,250	(miles/charging station/year)
GHG Reduction per Parking Space with Charging per Year	5	(MT CO ₂ e/charging station/year)
Estimated Benefit from Installing Commercial Electric Vehicle Charging Stations		
Number of On-Site Commercial Parking Spots Provided Chargers ⁶	120	(charging stations)
Annual VMT Displacement at On-Site Commercial Stations (Based on Charge)	2,190,000	(miles/year)
GHG Emissions Reduction from On-Site Commercial Parking Spots ⁷	545	(MT CO ₂ e/year)

Notes:

1. CO₂e intensity factor for PG&E accounts for the 44% projected RPS for 2024 consistent with SB 100.
2. National Renewable Energy Laboratory (NREL), 2018. California Plug-In Electric Vehicle Infrastructure Projections: 2017-2025 (Table C.1). Available at: <https://www.nrel.gov/docs/fy18osti/70893.pdf>. Accessed: November 2019.
3. Electric vehicle GHG emissions per mile are estimated based on the PG&E electricity emission factor (MT CO₂e/MWh) and the fuel economy of electric vehicles (kWh/mile).
4. CARB, 2015. EMFAC2017, running and starting exhaust emission rate for CO₂ and CH₄ for light duty gasoline- and diesel-powered vehicles in Contra Costa County, aggregated for all models and speeds, averaged over all seasons for 2024. Emission rate includes reductions for Advanced Clean Cars (ACC) and Pavley, though based on the USEPA SAFE rule, this is likely a conservative assumption and the fleet replaced with EVs will be higher-emitting than shown here. Available at: <http://www.arb.ca.gov/emfac/>. Accessed: February 2020.
5. Annual VMT displacement per parking spot is the total kWh per year multiplied by the fuel economy in miles per kWh. This is equivalent to two hours of charge time per day for a Level 2 charging station that charges at a rate of 25 driving range per hour.
6. Number of charging stations based on installing chargers for the spaces the 2019 CalGreen Tier 1 standards would otherwise require to be "EV-Capable". This assumes 120 parking spaces will be serviced by a charging station. The Project assumes that each commercial land use will have its own parking lots and all parking, including historic buildings will be new. Existing parking is not subject to CalGreen standards.
7. GHG emissions reductions are calculated as the difference between GHG emissions of gasoline/diesel vehicles and GHG emissions of electric vehicles multiplied by the annual VMT displacement charging stations.

Abbreviations:

CARB - California Air Resources Board

CH₄ - methane

CO₂ - carbon dioxide

CO₂e - carbon dioxide equivalents

EIR - Environmental Impact Report

EMFAC - California Air Resources Board Emissions Factor Model

EV - electric vehicle

GHG - greenhouse gases

gms - grams

kWh - kilowatt-hour

MT - metric tonnes

MWh - megawatt-hour

TDM - Transportation Demand Management

VMT - vehicle miles traveled

Table M8
Criteria Air Pollutant Emissions Reductions for Commercial Development Area Electric Vehicle Charging Stations
Project 2 - Commercial Heavy
Point Molate, Richmond, CA

Estimating VMT Displacement from Replacement of Internal Combustion Engine with Electric Vehicle		
Description	Value	Units
Fuel Economy of Electric Vehicle ¹	0.25	(kWh/mile)
Charge Rate ²	6.25	(kW = kWh/hr)

Estimating VMT Replaced by Electric Vehicles		
Description	Value	Units
Number of On-Site Commercial Parking Spots Provided Chargers ³	120	(parking spaces)
Number of Hours of Charging per Station per Year ⁴	730	(hours/year)
Annual VMT Displacement from Stations (Based on Charge) ⁴	18,250	(miles/charging station/year)
Annual VMT Displacement at On-Site Commercial Stations (Based on Charge)	2,190,000	(miles/year)

Emissions Reductions						
	VOC	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
Vehicle Emission Factor (g/mile) ⁵	0.039	0.066	0.90	0.003	0.0016	0.0015
Emissions Reduction for Gasoline/Diesel Vehicles (lb/day)	0.5	0.9	11.9	0.0	0.0	0.0

Notes:

- National Renewable Energy Laboratory (NREL). 2018. California Plug-In Electric Vehicle Infrastructure Projections: 2017-2025 (Table C.1). Available at: <https://www.nrel.gov/docs/fy18osti/70893.pdf>. Accessed: November 2019.
- Estimated charge rate of 6.25 kW based on capability of existing battery-electric vehicles and Level 2 charging stations.
- Number of charging stations based on installing chargers for the spaces according to the 2019 CalGreen Tier 1 standards would otherwise require to be "EV-Capable". This assumes 120 parking spaces will be serviced by a charging station. The Project assumes that each commercial land use will have its own parking lot and all parking, including historic buildings will be new. Existing parking is not subject to CalGreen standards.
- Annual VMT displacement per parking spot is the total kWh per year multiplied by the fuel economy in miles per kWh. This is equivalent to two hours of charge time per day for a Level 2 charging station that charges at a rate of 25 driving range per hour.
- Emission Factors were based on EMFAC2017 for calendar year 2024 in Contra Costa County. Emission Factors were weighted according to LDA, LDT1 and LDT2 fleet-mix VMT and trips. Only emissions from exhaust are included. All other emissions including heat soak, diurnal, tire wear, break wear, etc. are not considered as these emissions are also expected to occur for electric vehicles. However, emissions from these sources from the conventional fuel fleet are considerably higher than electric vehicles, and thus this omission is conservative. Based on the USEPA SAFE rule, the fleet replaced with EVs will be higher-emitting than shown here, which if incorporated, would increase the GHG benefits of this measure.

Abbreviations:

CAP - criteria air pollutant	lb - pound	SO _x - sulfur oxide
CARB - California Air Resources Board	kWh - kilowatt-hour	PM ₁₀ - particulate matter less than 10 microns in diameter
EIR - Environmental Impact Report	LDA - Light Duty Auto (passenger cars)	PM _{2.5} - particulate matter less than 2.5 microns in diameter
EMFAC - Emission FACTors model	LDT - Light Duty trucks	VOC - volatile organic compounds
EV - electric vehicle	NO _x - oxides of nitrogen	VMT - vehicles miles traveled
g - gram		

CALEEMOD OUTPUTS

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

**Point Molate - Residential Heavy - Full Build Out - Mitigated Operational
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	100.00	Space	0.00	40,000.00	0
City Park	30.00	Acre	30.00	1,306,800.00	0
City Park	2.73	Acre	2.73	118,918.80	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Apartments Low Rise	286.00	Dwelling Unit	8.97	286,000.00	818
Apartments Low Rise	350.00	Dwelling Unit	10.98	350,000.00	1001
Apartments Mid Rise	350.00	Dwelling Unit	4.62	350,000.00	1001
Apartments Mid Rise	473.00	Dwelling Unit	6.24	473,000.00	1353
Apartments Mid Rise	307.00	Dwelling Unit	4.05	307,000.00	878
Single Family Housing	274.00	Dwelling Unit	44.65	493,200.00	784
Convenience Market (24 Hour)	5.00	1000sqft	0.00	5,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year		2024	
Utility Company	Pacific Gas & Electric Company				

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

CO2 Intensity (lb/MWhr)	203.7	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004
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1.3 User Entered Comments & Non-Default Data

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Project Characteristics - Project operational year = 2024. Updated electricity emission factors to incorporate RPS for 2024.

Land Use - CalEEMod acreage scaled to match project acreage of 80 acres for Residential , retail and restaurant.

Construction Phase - Construction duration is from 2/1/2021 to 11/30/2028 based on Suncal schedule. Total construction days match inputs provided by AES. Exact start and end dates are defined by CalEEMod and won't exactly match AES/SunCal inputs

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment - Construction equipment updated to match inputs provided by developer/AES.

Off-road Equipment -

Off-road Equipment - Construction equipment updated to match inputs provided by developer/AES.

Off-road Equipment -

Trips and VMT - CalEEMod default trip rates

Demolition - Input provided by AES/developer.

Grading - Total soil quantity exported is 355,000 cu yd. Grading area for bay trail development is 2.73 acres. Grading area for project is 90 acres.

Vehicle Trips - Trip rates were obtained from the Traffic Impact Analysis Memo

Vehicle Emission Factors - Vehicle Emissions and Fleet Mix based on EMFAC 2017. See Air Quality Appendix Table A12 for EMFAC2017 inputs.

Road Dust - Updated silt loading factor is specific to Contra Costa county. See Air Quality Appendix Table EF2 for details.

Woodstoves - 600 Natural Gas fireplaces to be installed with the project.

Consumer Products - Consumer Product emission factors are updated to reflect statewide 2017 factors. See Air Quality Appendix Table A13 for further details.

Landscape Equipment - Total landscaping days set to zero

Energy Use - See Air Quality Appendix Table A14 for details on updated energy intensity values.

Solid Waste - See Air Quality Appendix Table A16 for details on updated solid waste generation rates.

Area Mitigation - Assuming "super-compliant" VOC paint for indoor and outdoor coatings - EFs from SCAQMD Rule 1113.

Energy Mitigation - Applying energy efficient appliances to residential units and restaurant.

Water Mitigation - Applying low-flow faucets, toilets and showers for indoor water use, with default reduction percentages.

Waste Mitigation - Applying 50% solid waste reduction measure.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency generators evaluated outside of CalEEMod.

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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

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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	220.00	110.00
tblConstructionPhase	NumDays	3,100.00	1,550.00
tblConstructionPhase	NumDays	200.00	78.00
tblConstructionPhase	NumDays	310.00	261.00
tblConstructionPhase	NumDays	310.00	262.00
tblConstructionPhase	NumDays	220.00	125.00
tblConstructionPhase	NumDays	120.00	89.00
tblConsumerProducts	ROG_EF	2.14E-05	1.55E-05
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	741.44	698.33
tblEnergyUse	LightingElect	4.88	5.88
tblEnergyUse	LightingElect	5.34	5.61
tblEnergyUse	LightingElect	4.88	5.12
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	1.75	1.14
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,054.10	2,848.06
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2,615.00	1,961.25

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

tblEnergyUse	NT24NG	2,615.00	1,662.07
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	128.02	128.00
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	T24E	233.06	3,542.93
tblEnergyUse	T24E	426.45	3,146.60
tblEnergyUse	T24E	2.24	3.83
tblEnergyUse	T24E	2.67	5.26
tblEnergyUse	T24E	2.24	3.38
tblEnergyUse	T24E	217.68	7,167.49
tblEnergyUse	T24NG	17,734.50	1,466.66
tblEnergyUse	T24NG	6,115.43	574.91
tblEnergyUse	T24NG	3.90	0.59
tblEnergyUse	T24NG	39.90	30.50
tblEnergyUse	T24NG	3.90	0.53
tblEnergyUse	T24NG	39,708.76	2,340.63
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	95.40	600.00
tblFireplaces	NumberGas	169.50	0.00
tblFireplaces	NumberGas	68.50	0.00

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tblFireplaces	NumberNoFireplace	25.44	0.00
tblFireplaces	NumberNoFireplace	45.20	0.00
tblFireplaces	NumberNoFireplace	21.92	0.00
tblFireplaces	NumberWood	108.12	0.00
tblFireplaces	NumberWood	192.10	0.00
tblFireplaces	NumberWood	117.82	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06

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tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01

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tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblGrading	AcresOfGrading	1,696.50	90.00
tblGrading	AcresOfGrading	622.25	2.73
tblGrading	MaterialExported	0.00	344,550.00
tblGrading	MaterialExported	0.00	10,450.00
tblLandUse	LotAcreage	0.90	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	17.88	8.97
tblLandUse	LotAcreage	21.88	10.98
tblLandUse	LotAcreage	8.08	4.05
tblLandUse	LotAcreage	9.21	4.62
tblLandUse	LotAcreage	12.45	6.24
tblLandUse	LotAcreage	88.96	44.65
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblOffRoadEquipment	HorsePower	402.00	367.00
tblOffRoadEquipment	LoadFactor	0.38	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00

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tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	641.35	203.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblRoadDust	RoadSiltLoading	0.1	0.047
tblSolidWaste	SolidWasteGenerationRate	292.56	1,420.00
tblSolidWaste	SolidWasteGenerationRate	519.80	2,522.00
tblSolidWaste	SolidWasteGenerationRate	21.00	18.25
tblSolidWaste	SolidWasteGenerationRate	329.28	612.00
tblVehicleEF	HHD	0.41	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.58	6.28
tblVehicleEF	HHD	0.84	0.40
tblVehicleEF	HHD	2.87	5.3000e-003
tblVehicleEF	HHD	4,335.05	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.83	5.34
tblVehicleEF	HHD	1.90	2.66
tblVehicleEF	HHD	19.75	2.36
tblVehicleEF	HHD	7.9210e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	7.5790e-003	2.5000e-003

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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.41	0.42
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3500e-004	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.48	0.49
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.39	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.15	6.28
tblVehicleEF	HHD	0.85	0.40
tblVehicleEF	HHD	2.61	5.3000e-003

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tblVehicleEF	HHD	4,592.60	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	14.28	5.34
tblVehicleEF	HHD	1.83	2.66
tblVehicleEF	HHD	19.74	2.36
tblVehicleEF	HHD	6.6780e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	6.3890e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.39	0.42
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3100e-004	0.00
tblVehicleEF	HHD	2.0200e-004	0.00

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tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.45	0.49
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.45	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.17	6.28
tblVehicleEF	HHD	0.83	0.40
tblVehicleEF	HHD	3.11	5.3000e-003
tblVehicleEF	HHD	3,979.39	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.22	5.34
tblVehicleEF	HHD	1.93	2.66
tblVehicleEF	HHD	19.77	2.36
tblVehicleEF	HHD	9.6380e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	9.2210e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02

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tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.51	0.49
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	LDA	3.2820e-003	1.8000e-003
tblVehicleEF	LDA	4.5120e-003	0.05
tblVehicleEF	LDA	0.48	0.52
tblVehicleEF	LDA	1.04	2.15
tblVehicleEF	LDA	229.87	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04

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tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.2620e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.3010e-003	2.4000e-003
tblVehicleEF	LDA	5.4600e-004	5.0000e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	3.7280e-003	1.8000e-003
tblVehicleEF	LDA	3.6390e-003	0.05
tblVehicleEF	LDA	0.58	0.52
tblVehicleEF	LDA	0.80	2.15
tblVehicleEF	LDA	251.31	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.17

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tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	9.3650e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.21
tblVehicleEF	LDA	2.5170e-003	2.4000e-003
tblVehicleEF	LDA	5.4200e-004	5.0000e-004
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.23
tblVehicleEF	LDA	3.1830e-003	1.8000e-003
tblVehicleEF	LDA	5.1540e-003	0.05
tblVehicleEF	LDA	0.47	0.52
tblVehicleEF	LDA	1.24	2.15
tblVehicleEF	LDA	226.93	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.05	0.03

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tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	8.0170e-003	6.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.2720e-003	2.4000e-003
tblVehicleEF	LDA	5.4900e-004	5.0000e-004
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDT1	6.8390e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.88	0.87
tblVehicleEF	LDT1	2.31	2.34
tblVehicleEF	LDT1	287.67	287.73
tblVehicleEF	LDT1	66.83	61.75

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tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.13	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.15	0.32
tblVehicleEF	LDT1	2.8860e-003	2.8000e-003
tblVehicleEF	LDT1	7.0800e-004	6.0000e-004
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.16	0.35
tblVehicleEF	LDT1	7.6930e-003	3.8000e-003
tblVehicleEF	LDT1	8.8990e-003	0.07
tblVehicleEF	LDT1	1.05	0.87
tblVehicleEF	LDT1	1.76	2.34
tblVehicleEF	LDT1	313.61	287.73

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tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.11	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.12	0.32
tblVehicleEF	LDT1	3.1480e-003	2.8000e-003
tblVehicleEF	LDT1	6.9900e-004	6.0000e-004
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.13	0.35
tblVehicleEF	LDT1	6.6770e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.87	0.87
tblVehicleEF	LDT1	2.76	2.34

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tblVehicleEF	LDT1	284.11	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.10	0.07
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8500e-003	2.8000e-003
tblVehicleEF	LDT1	7.1600e-004	6.0000e-004
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT2	4.4150e-003	2.9000e-003
tblVehicleEF	LDT2	5.8360e-003	0.06
tblVehicleEF	LDT2	0.62	0.70

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tblVehicleEF	LDT2	1.34	2.74
tblVehicleEF	LDT2	323.78	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.2420e-003	3.0000e-003
tblVehicleEF	LDT2	7.6900e-004	7.0000e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.0080e-003	2.9000e-003
tblVehicleEF	LDT2	4.7080e-003	0.06

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tblVehicleEF	LDT2	0.75	0.70
tblVehicleEF	LDT2	1.03	2.74
tblVehicleEF	LDT2	353.38	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	3.5390e-003	3.0000e-003
tblVehicleEF	LDT2	7.6400e-004	7.0000e-004
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.32
tblVehicleEF	LDT2	4.2820e-003	2.9000e-003

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tblVehicleEF	LDT2	6.6640e-003	0.06
tblVehicleEF	LDT2	0.60	0.70
tblVehicleEF	LDT2	1.58	2.74
tblVehicleEF	LDT2	319.73	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.2010e-003	3.0000e-003
tblVehicleEF	LDT2	7.7400e-004	7.0000e-004
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.10	0.32

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tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.99	0.77
tblVehicleEF	LHD1	2.29	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.39	0.94
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10

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tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.01	0.77
tblVehicleEF	LHD1	2.10	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.33	0.94
tblVehicleEF	LHD1	0.87	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003

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tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.3800e-004	1.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.16	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.24	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01

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tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.77
tblVehicleEF	LHD1	2.47	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.42	0.94
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004

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tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4500e-004	1.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.0300e-003	6.9000e-003
tblVehicleEF	LHD2	5.6740e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	1.02	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.77	0.98
tblVehicleEF	LHD2	0.40	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003

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tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.1180e-003	6.9000e-003
tblVehicleEF	LHD2	5.3450e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	0.94	0.55

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tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.74	0.98
tblVehicleEF	LHD2	0.38	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4200e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004

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tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	6.9590e-003	6.9000e-003
tblVehicleEF	LHD2	5.9550e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.64
tblVehicleEF	LHD2	1.09	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.78	0.98
tblVehicleEF	LHD2	0.42	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02

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tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.16	0.26
tblVehicleEF	MCY	19.70	20.00
tblVehicleEF	MCY	10.22	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01

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tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.27	2.29
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	2.1230e-003	2.1000e-003
tblVehicleEF	MCY	6.8900e-004	6.0000e-004
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.81	2.82
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.43	2.15
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.13	0.26
tblVehicleEF	MCY	18.98	20.00
tblVehicleEF	MCY	8.86	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.02	1.16
tblVehicleEF	MCY	0.29	0.27

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tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.18	2.29
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.83	1.98
tblVehicleEF	MCY	2.1090e-003	2.1000e-003
tblVehicleEF	MCY	6.5400e-004	6.0000e-004
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.70	2.82
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.99	2.15
tblVehicleEF	MCY	0.47	0.34
tblVehicleEF	MCY	0.19	0.26
tblVehicleEF	MCY	21.47	20.00
tblVehicleEF	MCY	11.78	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.25	1.16

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tblVehicleEF	MCY	0.35	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.37	2.29
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.62	1.98
tblVehicleEF	MCY	2.1550e-003	2.1000e-003
tblVehicleEF	MCY	7.2600e-004	6.0000e-004
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.94	2.82
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.85	2.15
tblVehicleEF	MDV	8.6020e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.97	0.82
tblVehicleEF	MDV	2.71	3.10
tblVehicleEF	MDV	443.89	379.50
tblVehicleEF	MDV	101.43	81.06

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tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.24	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4430e-003	3.8000e-003
tblVehicleEF	MDV	1.0620e-003	8.0000e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	9.7400e-003	3.8000e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.18	0.82
tblVehicleEF	MDV	2.08	3.10
tblVehicleEF	MDV	483.31	379.50

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tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.21	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.38
tblVehicleEF	MDV	4.8400e-003	3.8000e-003
tblVehicleEF	MDV	1.0500e-003	8.0000e-004
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.04	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.42
tblVehicleEF	MDV	8.3570e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.96	0.82
tblVehicleEF	MDV	3.22	3.10

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tblVehicleEF	MDV	438.49	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.23	0.38
tblVehicleEF	MDV	4.3890e-003	3.8000e-003
tblVehicleEF	MDV	1.0710e-003	8.0000e-004
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.25	0.42
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.46	0.85

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tblVehicleEF	MH	4.96	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.34	1.52
tblVehicleEF	MH	0.78	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.6600e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.32	0.10

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tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.52	0.85
tblVehicleEF	MH	4.45	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.26	1.52
tblVehicleEF	MH	0.72	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.27	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5800e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23

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tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.41	0.85
tblVehicleEF	MH	5.39	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.38	1.52
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7400e-004	2.0000e-004

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tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.4400e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.37	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.47	1.19
tblVehicleEF	MHD	134.03	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.38	0.52
tblVehicleEF	MHD	1.11	1.47
tblVehicleEF	MHD	10.23	1.66
tblVehicleEF	MHD	1.4100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.3500e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004

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tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	1.2910e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0200e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.01	4.0000e-003
tblVehicleEF	MHD	4.5430e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.43
tblVehicleEF	MHD	0.36	0.27
tblVehicleEF	MHD	4.98	1.19
tblVehicleEF	MHD	142.13	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.40	0.52
tblVehicleEF	MHD	1.07	1.47

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tblVehicleEF	MHD	10.17	1.66
tblVehicleEF	MHD	1.1900e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.1400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	1.3670e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9400e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	0.02	4.0000e-003

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tblVehicleEF	MHD	4.3600e-003	2.1000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.94	1.19
tblVehicleEF	MHD	123.22	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.37	0.52
tblVehicleEF	MHD	1.13	1.47
tblVehicleEF	MHD	10.28	1.66
tblVehicleEF	MHD	1.7100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.6400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	1.1890e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01

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tblVehicleEF	MHD	7.1000e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.3020e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.53	0.98
tblVehicleEF	OBUS	5.50	2.88
tblVehicleEF	OBUS	71.68	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.14	0.23
tblVehicleEF	OBUS	0.75	1.13
tblVehicleEF	OBUS	2.17	0.68
tblVehicleEF	OBUS	1.3000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004

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tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.34	0.14
tblVehicleEF	OBUS	6.9600e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.37	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.5680e-003	9.0000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	4.94	2.88
tblVehicleEF	OBUS	74.94	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.15	0.23

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tblVehicleEF	OBUS	0.71	1.13
tblVehicleEF	OBUS	2.10	0.68
tblVehicleEF	OBUS	1.1000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.32	0.14
tblVehicleEF	OBUS	7.2700e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7700e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.35	0.15

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tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.0920e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.52	0.98
tblVehicleEF	OBUS	5.95	2.88
tblVehicleEF	OBUS	67.19	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.13	0.23
tblVehicleEF	OBUS	0.77	1.13
tblVehicleEF	OBUS	2.23	0.68
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.36	0.14

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tblVehicleEF	OBUS	6.5300e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9500e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1030e-003	2.6000e-003
tblVehicleEF	SBUS	0.06	1.3000e-003
tblVehicleEF	SBUS	2.09	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.33	0.19
tblVehicleEF	SBUS	1,440.18	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.22	2.23
tblVehicleEF	SBUS	4.78	2.75
tblVehicleEF	SBUS	19.18	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003

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tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2700e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	8.0000e-003
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1440e-003	2.6000e-003
tblVehicleEF	SBUS	0.05	1.3000e-003
tblVehicleEF	SBUS	1.93	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	0.91	0.19
tblVehicleEF	SBUS	1,522.68	299.60

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tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.64	2.23
tblVehicleEF	SBUS	4.59	2.75
tblVehicleEF	SBUS	19.17	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	9.5970e-003	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.24	0.09
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.05	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2100e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.33	0.12
tblVehicleEF	SBUS	4.7800e-004	0.00

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tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.06	8.0000e-003
tblVehicleEF	SBUS	0.88	0.02
tblVehicleEF	SBUS	6.0730e-003	2.6000e-003
tblVehicleEF	SBUS	0.07	1.3000e-003
tblVehicleEF	SBUS	2.33	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.66	0.19
tblVehicleEF	SBUS	1,326.25	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	12.63	2.23
tblVehicleEF	SBUS	4.86	2.75
tblVehicleEF	SBUS	19.19	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	9.7000e-005	0.00

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tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.3300e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	8.0000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.07	1.5000e-003
tblVehicleEF	UBUS	4.04	8.13
tblVehicleEF	UBUS	11.74	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.66	0.64
tblVehicleEF	UBUS	12.20	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003

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tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.98	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7290e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.65	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	1.08	5.8000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.06	1.5000e-003
tblVehicleEF	UBUS	4.11	8.13
tblVehicleEF	UBUS	9.17	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.41	0.64
tblVehicleEF	UBUS	12.07	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003

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tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.39	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.85	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.6840e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.66	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.93	5.8000e-003
tblVehicleEF	UBUS	0.23	1.10
tblVehicleEF	UBUS	0.08	1.5000e-003
tblVehicleEF	UBUS	4.00	8.13
tblVehicleEF	UBUS	14.08	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.77	0.64
tblVehicleEF	UBUS	12.31	0.03

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tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.10	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7700e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.64	1.12
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.20	5.8000e-003
tblVehicleTrips	CC_TTP	0.00	80.10
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	0.90
tblVehicleTrips	DV_TP	18.00	40.00
tblVehicleTrips	DV_TP	35.00	40.00

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tblVehicleTrips	DV_TP	0.00	15.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	0.00	61.00
tblVehicleTrips	PR_TP	38.00	60.00
tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	PR_TP	0.00	24.00
tblVehicleTrips	ST_TR	7.16	5.87
tblVehicleTrips	ST_TR	6.39	3.77
tblVehicleTrips	ST_TR	863.10	0.00
tblVehicleTrips	ST_TR	94.36	24.19
tblVehicleTrips	ST_TR	49.97	26.98
tblVehicleTrips	ST_TR	9.91	7.19
tblVehicleTrips	ST_TR	0.00	2.02
tblVehicleTrips	SU_TR	6.07	4.97
tblVehicleTrips	SU_TR	5.86	3.46
tblVehicleTrips	SU_TR	758.45	0.00
tblVehicleTrips	SU_TR	72.16	18.50
tblVehicleTrips	SU_TR	25.24	13.63
tblVehicleTrips	SU_TR	8.62	6.26
tblVehicleTrips	SU_TR	0.00	2.02
tblVehicleTrips	WD_TR	6.59	5.40
tblVehicleTrips	WD_TR	6.65	3.93
tblVehicleTrips	WD_TR	737.99	0.00
tblVehicleTrips	WD_TR	89.95	23.06
tblVehicleTrips	WD_TR	42.70	23.06
tblVehicleTrips	WD_TR	9.52	6.91

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tblVehicleTrips	WD_TR	0.00	2.02
tblWater	OutdoorWaterUseRate	38,997,184.57	0.00
tblWoodstoves	NumberCatalytic	12.72	0.00
tblWoodstoves	NumberCatalytic	22.60	0.00
tblWoodstoves	NumberCatalytic	10.96	0.00
tblWoodstoves	NumberNoncatalytic	12.72	0.00
tblWoodstoves	NumberNoncatalytic	22.60	0.00
tblWoodstoves	NumberNoncatalytic	10.96	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

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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					
2021	1.2161	16.2072	8.5517	0.0283	1.8677	0.5252	2.3929	0.8817	0.4842	1.3658	0.0000	2,597.7828	2,597.7828	0.4832	0.0000	2,609.8618
2022	0.7771	8.8607	6.3025	0.0185	1.1548	0.3089	1.4637	0.4889	0.2845	0.7734	0.0000	1,665.0865	1,665.0865	0.3862	0.0000	1,674.7403
2023	13.8535	8.0501	10.0238	0.0409	2.7108	0.1637	2.8746	0.7573	0.1547	0.9120	0.0000	3,759.6173	3,759.6173	0.2094	0.0000	3,764.8524
2024	4.5389	6.7742	8.3545	0.0372	2.5196	0.1044	2.6240	0.6794	0.0984	0.7778	0.0000	3,430.0241	3,430.0241	0.1582	0.0000	3,433.9797
2025	0.9266	6.3971	7.6609	0.0356	2.4721	0.0864	2.5586	0.6667	0.0811	0.7479	0.0000	3,290.3063	3,290.3063	0.1511	0.0000	3,294.0837
2026	0.8897	6.3038	7.3274	0.0349	2.4721	0.0860	2.5581	0.6667	0.0807	0.7474	0.0000	3,225.3222	3,225.3222	0.1474	0.0000	3,229.0060
2027	0.8548	6.2134	7.0366	0.0343	2.4721	0.0852	2.5573	0.6667	0.0800	0.7467	0.0000	3,167.4309	3,167.4309	0.1440	0.0000	3,171.0301
2028	0.7510	5.6194	6.2147	0.0309	2.2638	0.0772	2.3409	0.6105	0.0725	0.6830	0.0000	2,854.2982	2,854.2982	0.1291	0.0000	2,857.5262
Maximum	13.8535	16.2072	10.0238	0.0409	2.7108	0.5252	2.8746	0.8817	0.4842	1.3658	0.0000	3,759.6173	3,759.6173	0.4832	0.0000	3,764.8524

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2.1 Overall Construction

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					
2021	0.4376	6.6648	8.7730	0.0283	1.0488	0.0969	1.1457	0.4528	0.0913	0.5441	0.0000	2,597.781 2	2,597.781 2	0.4832	0.0000	2,609.860 2
2022	0.3649	3.8941	7.0339	0.0185	0.7387	0.1010	0.8398	0.2765	0.0944	0.3709	0.0000	1,665.085 2	1,665.085 2	0.3862	0.0000	1,674.738 9
2023	13.5888	5.5257	10.3178	0.0409	2.6563	0.0329	2.6892	0.7278	0.0312	0.7590	0.0000	3,759.616 7	3,759.616 7	0.2094	0.0000	3,764.851 7
2024	4.3745	5.2011	8.5261	0.0372	2.5196	0.0239	2.5436	0.6794	0.0227	0.7021	0.0000	3,430.023 7	3,430.023 7	0.1582	0.0000	3,433.979 3
2025	0.7910	5.0614	7.8404	0.0356	2.4721	0.0229	2.4950	0.6667	0.0217	0.6884	0.0000	3,290.306 0	3,290.306 0	0.1511	0.0000	3,294.083 4
2026	0.7540	4.9682	7.5069	0.0349	2.4721	0.0224	2.4946	0.6667	0.0212	0.6880	0.0000	3,225.321 9	3,225.321 9	0.1474	0.0000	3,229.005 6
2027	0.7192	4.8778	7.2161	0.0343	2.4721	0.0217	2.4938	0.6667	0.0206	0.6873	0.0000	3,167.430 5	3,167.430 5	0.1440	0.0000	3,171.029 7
2028	0.6268	4.3963	6.3791	0.0309	2.2638	0.0190	2.2828	0.6105	0.0180	0.6286	0.0000	2,854.297 9	2,854.297 9	0.1291	0.0000	2,857.525 8
Maximum	13.5888	6.6648	10.3178	0.0409	2.6563	0.1010	2.6892	0.7278	0.0944	0.7590	0.0000	3,759.616 7	3,759.616 7	0.4832	0.0000	3,764.851 7

	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	9.03	37.00	-3.45	0.00	7.19	76.28	12.32	12.38	75.97	24.96	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)
3	1-9-2021	4-8-2021	1.8744	0.3128
4	4-9-2021	7-8-2021	6.4655	2.3613

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5	7-9-2021	10-8-2021	4.6653	2.2626
6	10-9-2021	1-8-2022	4.7981	2.3432
7	1-9-2022	4-8-2022	5.8680	2.7579
8	4-9-2022	7-8-2022	1.7323	0.7220
9	7-9-2022	10-8-2022	1.4094	0.3880
10	10-9-2022	1-8-2023	1.8130	0.7166
11	1-9-2023	4-8-2023	2.6803	1.7419
12	4-9-2023	7-8-2023	1.9602	1.5249
13	7-9-2023	10-8-2023	6.1560	5.5708
14	10-9-2023	1-8-2024	12.1104	11.3242
15	1-9-2024	4-8-2024	4.5452	4.0587
16	4-9-2024	7-8-2024	1.8882	1.4868
17	7-9-2024	10-8-2024	1.9118	1.5059
18	10-9-2024	1-8-2025	1.9351	1.5323
19	1-9-2025	4-8-2025	1.8251	1.4627
20	4-9-2025	7-8-2025	1.8180	1.4516
21	7-9-2025	10-8-2025	1.8406	1.4702
22	10-9-2025	1-8-2026	1.8653	1.4949
23	1-9-2026	4-8-2026	1.7917	1.4293
24	4-9-2026	7-8-2026	1.7859	1.4194
25	7-9-2026	10-8-2026	1.8080	1.4375
26	10-9-2026	1-8-2027	1.8312	1.4607
27	1-9-2027	4-8-2027	1.7596	1.3972
28	4-9-2027	7-8-2027	1.7549	1.3885
29	7-9-2027	10-8-2027	1.7766	1.4061
30	10-9-2027	1-8-2028	1.7986	1.4281
31	1-9-2028	4-8-2028	1.7502	1.3838

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32	4-9-2028	7-8-2028	1.7273	1.3609
33	7-9-2028	9-30-2028	1.5945	1.2562
		Highest	12.1104	11.3242

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	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.0490	0.4285	0.2475	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	1,664.8201	1,664.8201	0.2004	0.0321	1,679.3832
Mobile	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Waste						0.0000	0.0000		0.0000	0.0000	935.4514	0.0000	935.4514	55.2836	0.0000	2,317.5412
Water						0.0000	0.0000		0.0000	0.0000	44.6810	98.0029	142.6839	4.6050	0.1103	290.6747
Total	11.1468	6.6722	30.8187	0.0943	5.2810	0.1160	5.3970	1.4999	0.1112	1.6112	980.1324	10,297.5369	11,277.6692	60.4636	0.1451	12,832.4966

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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	6.6934	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.0490	0.4285	0.2475	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	1,651.0421	1,651.0421	0.1982	0.0318	1,665.4687
Mobile	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Waste						0.0000	0.0000		0.0000	0.0000	467.7257	0.0000	467.7257	27.6418	0.0000	1,158.7706
Water						0.0000	0.0000		0.0000	0.0000	35.7448	72.8842	108.6290	3.6831	0.0881	226.9671
Total	9.6765	6.6722	30.8187	0.0943	5.2810	0.1160	5.3970	1.4999	0.1112	1.6112	503.4705	10,258.6402	10,762.1106	31.8977	0.1227	11,596.1038

	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	13.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.63	0.38	4.57	47.24	15.46	9.63

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2021	5/19/2021	5	78	
2	Site Preparation	Site Preparation	3/1/2021	7/1/2021	5	89	
3	Grading	Grading	4/1/2021	3/31/2022	5	261	
4	Paving	Paving	1/1/2022	6/24/2022	5	125	
5	Bay Trail Grading	Grading	3/1/2022	3/1/2023	5	262	
6	Building Construction	Building Construction	12/23/2022	11/30/2028	5	1550	
7	Architectural Coating	Architectural Coating	9/1/2023	2/1/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 4,574,880; Residential Outdoor: 1,524,960; Non-Residential Indoor: 67,500; Non-Residential Outdoor: 22,500; Striped Parking Area: 2,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	6	8.00	367	0.48

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Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Bay Trail Grading	Excavators	1	6.00	158	0.38
Bay Trail Grading	Graders	1	6.00	187	0.41
Bay Trail Grading	Off-Highway Trucks	1	8.00	367	0.48
Bay Trail Grading	Paving Equipment	1	8.00	132	0.36
Bay Trail Grading	Plate Compactors	1	8.00	8	0.43
Bay Trail Grading	Rubber Tired Dozers	1	6.00	247	0.40
Bay Trail Grading	Scrapers	2	8.00	367	0.48
Bay Trail Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	8	6.00	78	0.48

Trips and VMT

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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
Demolition	6	15.00	0.00	227.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	30.00	0.00	43,069.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Bay Trail Grading	9	23.00	0.00	1,306.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,002.00	466.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	400.00	0.00	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

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

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					0.0246	0.0000	0.0246	3.7300e-003	0.0000	3.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1234	1.2262	0.8410	1.5100e-003		0.0605	0.0605		0.0562	0.0562	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361
Total	0.1234	1.2262	0.8410	1.5100e-003	0.0246	0.0605	0.0851	3.7300e-003	0.0562	0.0599	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

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					0.0111	0.0000	0.0111	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.0781	0.9079	1.5100e-003		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360
Total	0.0180	0.0781	0.9079	1.5100e-003	0.0111	2.4000e-003	0.0135	1.6800e-003	2.4000e-003	4.0800e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

3.3 Site Preparation - 2021

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					0.8040	0.0000	0.8040	0.4419	0.0000	0.4419	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1730	1.8021	0.9414	1.6900e-003		0.0910	0.0910		0.0837	0.0837	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920
Total	0.1730	1.8021	0.9414	1.6900e-003	0.8040	0.0910	0.8949	0.4419	0.0837	0.5256	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

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					0.3618	0.0000	0.3618	0.1989	0.0000	0.1989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.0898	0.9287	1.6900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918
Total	0.0207	0.0898	0.9287	1.6900e-003	0.3618	2.7600e-003	0.3645	0.1989	2.7600e-003	0.2016	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

3.4 Grading - 2021

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					0.6604	0.0000	0.6604	0.3342	0.0000	0.3342	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7790	8.7873	5.8014	0.0121		0.3596	0.3596		0.3308	0.3308	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347
Total	0.7790	8.7873	5.8014	0.0121	0.6604	0.3596	1.0200	0.3342	0.3308	0.6650	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

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					0.2972	0.0000	0.2972	0.1504	0.0000	0.1504	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2582	2.1053	5.9685	0.0121		0.0776	0.0776		0.0727	0.0727	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334
Total	0.2582	2.1053	5.9685	0.0121	0.2972	0.0776	0.3748	0.1504	0.0727	0.2231	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

3.4 Grading - 2022

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					0.2599	0.0000	0.2599	0.1140	0.0000	0.1140	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2209	2.3878	1.7454	3.9300e-003		0.0970	0.0970		0.0892	0.0892	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322
Total	0.2209	2.3878	1.7454	3.9300e-003	0.2599	0.0970	0.3569	0.1140	0.0892	0.2033	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

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					0.1170	0.0000	0.1170	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0786	0.5995	1.9088	3.9300e-003		0.0220	0.0220		0.0207	0.0207	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318
Total	0.0786	0.5995	1.9088	3.9300e-003	0.1170	0.0220	0.1390	0.0513	0.0207	0.0720	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

3.5 Paving - 2022

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

3.6 Bay Trail Grading - 2022

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					0.4966	0.0000	0.4966	0.2721	0.0000	0.2721	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4053	4.1437	3.0396	7.4600e-003		0.1689	0.1689		0.1555	0.1555	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293
Total	0.4053	4.1437	3.0396	7.4600e-003	0.4966	0.1689	0.6655	0.2721	0.1555	0.4276	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

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					0.2235	0.0000	0.2235	0.1224	0.0000	0.1224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1395	1.0055	3.6043	7.4600e-003		0.0384	0.0384		0.0361	0.0361	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286
Total	0.1395	1.0055	3.6043	7.4600e-003	0.2235	0.0384	0.2619	0.1224	0.0361	0.1586	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

3.6 Bay Trail Grading - 2023

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					0.0991	0.0000	0.0991	0.0536	0.0000	0.0536	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.7283	0.5768	1.4700e-003		0.0293	0.0293		0.0270	0.0270	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717
Total	0.0740	0.7283	0.5768	1.4700e-003	0.0991	0.0293	0.1284	0.0536	0.0270	0.0806	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

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					0.0446	0.0000	0.0446	0.0241	0.0000	0.0241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.1874	0.7054	1.4700e-003		7.1300e-003	7.1300e-003		6.7200e-003	6.7200e-003	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716
Total	0.0269	0.1874	0.7054	1.4700e-003	0.0446	7.1300e-003	0.0518	0.0241	6.7200e-003	0.0309	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

3.7 Building Construction - 2022

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	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.2700e-003	0.1365	0.0344	3.7000e-004	9.1900e-003	2.8000e-004	9.4800e-003	2.6600e-003	2.7000e-004	2.9300e-003	0.0000	35.7965	35.7965	1.5900e-003	0.0000	35.8363
Worker	0.0173	0.0117	0.1264	4.3000e-004	0.0476	3.0000e-004	0.0479	0.0127	2.8000e-004	0.0130	0.0000	38.8111	38.8111	8.2000e-004	0.0000	38.8317
Total	0.0216	0.1481	0.1608	8.0000e-004	0.0568	5.8000e-004	0.0574	0.0153	5.5000e-004	0.0159	0.0000	74.6076	74.6076	2.4100e-003	0.0000	74.6679

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	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.2700e-003	0.1365	0.0344	3.7000e-004	9.1900e-003	2.8000e-004	9.4800e-003	2.6600e-003	2.7000e-004	2.9300e-003	0.0000	35.7965	35.7965	1.5900e-003	0.0000	35.8363
Worker	0.0173	0.0117	0.1264	4.3000e-004	0.0476	3.0000e-004	0.0479	0.0127	2.8000e-004	0.0130	0.0000	38.8111	38.8111	8.2000e-004	0.0000	38.8317
Total	0.0216	0.1481	0.1608	8.0000e-004	0.0568	5.8000e-004	0.0574	0.0153	5.5000e-004	0.0159	0.0000	74.6076	74.6076	2.4100e-003	0.0000	74.6679

3.7 Building Construction - 2023

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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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	0.1396	4.5017	1.3296	0.0158	0.3985	5.3700e-003	0.4038	0.1152	5.1400e-003	0.1203	0.0000	1,508.0032	1,508.0032	0.0567	0.0000	1,509.4213
Worker	0.6980	0.4536	5.0353	0.0179	2.0642	0.0128	2.0770	0.5490	0.0118	0.5608	0.0000	1,616.4807	1,616.4807	0.0319	0.0000	1,617.2777
Total	0.8375	4.9553	6.3649	0.0336	2.4626	0.0182	2.4808	0.6642	0.0170	0.6811	0.0000	3,124.4839	3,124.4839	0.0886	0.0000	3,126.6991

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	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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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	0.1396	4.5017	1.3296	0.0158	0.3985	5.3700e-003	0.4038	0.1152	5.1400e-003	0.1203	0.0000	1,508.0032	1,508.0032	0.0567	0.0000	1,509.4213
Worker	0.6980	0.4536	5.0353	0.0179	2.0642	0.0128	2.0770	0.5490	0.0118	0.5608	0.0000	1,616.4807	1,616.4807	0.0319	0.0000	1,617.2777
Total	0.8375	4.9553	6.3649	0.0336	2.4626	0.0182	2.4808	0.6642	0.0170	0.6811	0.0000	3,124.4839	3,124.4839	0.0886	0.0000	3,126.6991

3.7 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

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3.7 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	0.1358	4.4765	1.2848	0.0158	0.4015	5.3000e-003	0.4068	0.1161	5.0700e-003	0.1212	0.0000	1,509.6770	1,509.6770	0.0556	0.0000	1,511.0675
Worker	0.6581	0.4120	4.6922	0.0173	2.0800	0.0127	2.0927	0.5532	0.0117	0.5649	0.0000	1,563.4979	1,563.4979	0.0289	0.0000	1,564.2198
Total	0.7938	4.8885	5.9770	0.0330	2.4816	0.0180	2.4995	0.6693	0.0167	0.6860	0.0000	3,073.1749	3,073.1749	0.0845	0.0000	3,075.2872

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	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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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	0.1358	4.4765	1.2848	0.0158	0.4015	5.3000e-003	0.4068	0.1161	5.0700e-003	0.1212	0.0000	1,509.6770	1,509.6770	0.0556	0.0000	1,511.0675
Worker	0.6581	0.4120	4.6922	0.0173	2.0800	0.0127	2.0927	0.5532	0.0117	0.5649	0.0000	1,563.4979	1,563.4979	0.0289	0.0000	1,564.2198
Total	0.7938	4.8885	5.9770	0.0330	2.4816	0.0180	2.4995	0.6693	0.0167	0.6860	0.0000	3,073.1749	3,073.1749	0.0845	0.0000	3,075.2872

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1312	4.3973	1.2383	0.0156	0.4000	5.1700e-003	0.4052	0.1156	4.9400e-003	0.1206	0.0000	1,494.3974	1,494.3974	0.0539	0.0000	1,495.7457
Worker	0.6170	0.3725	4.3235	0.0165	2.0721	0.0124	2.0845	0.5511	0.0114	0.5625	0.0000	1,493.2540	1,493.2540	0.0260	0.0000	1,493.9045
Total	0.7482	4.7698	5.5618	0.0321	2.4721	0.0176	2.4897	0.6667	0.0164	0.6831	0.0000	2,987.6514	2,987.6514	0.0800	0.0000	2,989.6502

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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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	0.1312	4.3973	1.2383	0.0156	0.4000	5.1700e-003	0.4052	0.1156	4.9400e-003	0.1206	0.0000	1,494.3974	1,494.3974	0.0539	0.0000	1,495.7457
Worker	0.6170	0.3725	4.3235	0.0165	2.0721	0.0124	2.0845	0.5511	0.0114	0.5625	0.0000	1,493.2540	1,493.2540	0.0260	0.0000	1,493.9045
Total	0.7482	4.7698	5.5618	0.0321	2.4721	0.0176	2.4897	0.6667	0.0164	0.6831	0.0000	2,987.6514	2,987.6514	0.0800	0.0000	2,989.6502

3.7 Building Construction - 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					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 Building Construction - 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	0.0000	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	0.1277	4.3363	1.2071	0.0155	0.4000	5.0400e-003	0.4051	0.1157	4.8100e-003	0.1205	0.0000	1,485.7378	1,485.7378	0.0526	0.0000	1,487.0517
Worker	0.5835	0.3403	4.0212	0.0159	2.0721	0.0121	2.0842	0.5511	0.0111	0.5622	0.0000	1,436.9296	1,436.9296	0.0237	0.0000	1,437.5208
Total	0.7112	4.6765	5.2284	0.0314	2.4721	0.0171	2.4892	0.6667	0.0159	0.6827	0.0000	2,922.6673	2,922.6673	0.0762	0.0000	2,924.5725

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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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	0.1277	4.3363	1.2071	0.0155	0.4000	5.0400e-003	0.4051	0.1157	4.8100e-003	0.1205	0.0000	1,485.7378	1,485.7378	0.0526	0.0000	1,487.0517
Worker	0.5835	0.3403	4.0212	0.0159	2.0721	0.0121	2.0842	0.5511	0.0111	0.5622	0.0000	1,436.9296	1,436.9296	0.0237	0.0000	1,437.5208
Total	0.7112	4.6765	5.2284	0.0314	2.4721	0.0171	2.4892	0.6667	0.0159	0.6827	0.0000	2,922.6673	2,922.6673	0.0762	0.0000	2,924.5725

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1247	4.2743	1.1822	0.0154	0.4000	4.9100e-003	0.4050	0.1157	4.6900e-003	0.1204	0.0000	1,477.5860	1,477.5860	0.0513	0.0000	1,478.8675
Worker	0.5516	0.3119	3.7554	0.0153	2.0721	0.0115	2.0836	0.5511	0.0105	0.5616	0.0000	1,387.1900	1,387.1900	0.0216	0.0000	1,387.7291
Total	0.6764	4.5862	4.9376	0.0307	2.4721	0.0164	2.4885	0.6667	0.0152	0.6820	0.0000	2,864.7760	2,864.7760	0.0728	0.0000	2,866.5965

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1247	4.2743	1.1822	0.0154	0.4000	4.9100e-003	0.4050	0.1157	4.6900e-003	0.1204	0.0000	1,477.5860	1,477.5860	0.0513	0.0000	1,478.8675
Worker	0.5516	0.3119	3.7554	0.0153	2.0721	0.0115	2.0836	0.5511	0.0105	0.5616	0.0000	1,387.1900	1,387.1900	0.0216	0.0000	1,387.7291
Total	0.6764	4.5862	4.9376	0.0307	2.4721	0.0164	2.4885	0.6667	0.0152	0.6820	0.0000	2,864.7760	2,864.7760	0.0728	0.0000	2,866.5965

3.7 Building Construction - 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	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724
Total	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724

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3.7 Building Construction - 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	0.1120	3.8666	1.0666	0.0141	0.3663	4.4000e-003	0.3707	0.1059	4.2000e-003	0.1101	0.0000	1,346.8381	1,346.8381	0.0459	0.0000	1,347.9848
Worker	0.4756	0.2627	3.2260	0.0136	1.8974	9.7300e-003	1.9072	0.5046	8.9500e-003	0.5136	0.0000	1,230.3164	1,230.3164	0.0181	0.0000	1,230.7689
Total	0.5876	4.1293	4.2926	0.0276	2.2638	0.0141	2.2779	0.6105	0.0132	0.6237	0.0000	2,577.1544	2,577.1544	0.0640	0.0000	2,578.7537

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	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721
Total	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721

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3.7 Building Construction - 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	0.1120	3.8666	1.0666	0.0141	0.3663	4.4000e-003	0.3707	0.1059	4.2000e-003	0.1101	0.0000	1,346.8381	1,346.8381	0.0459	0.0000	1,347.9848
Worker	0.4756	0.2627	3.2260	0.0136	1.8974	9.7300e-003	1.9072	0.5046	8.9500e-003	0.5136	0.0000	1,230.3164	1,230.3164	0.0181	0.0000	1,230.7689
Total	0.5876	4.1293	4.2926	0.0276	2.2638	0.0141	2.2779	0.6105	0.0132	0.6237	0.0000	2,577.1544	2,577.1544	0.0640	0.0000	2,578.7537

3.8 Architectural Coating - 2023

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					
Archit. Coating	12.6236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0659	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633
Total	12.6895	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823
Total	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823

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					
Archit. Coating	12.6236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632
Total	12.6338	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823
Total	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823

3.8 Architectural Coating - 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					
Archit. Coating	3.5229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.5402	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288
Total	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288

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					
Archit. Coating	3.5229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.5257	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288
Total	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Unmitigated	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,544.40	1,678.82	1421.42	3,570,732	3,570,732
Apartments Low Rise	1,890.00	2,054.50	1739.50	4,369,777	4,369,777
Apartments Mid Rise	1,375.50	1,319.50	1211.00	3,104,112	3,104,112
Apartments Mid Rise	1,858.89	1,783.21	1636.58	4,194,986	4,194,986
Apartments Mid Rise	1,206.51	1,157.39	1062.22	2,722,750	2,722,750
City Park	56.70	682.50	502.20	447,770	447,770
City Park	5.16	62.11	45.70	40,747	40,747
Convenience Market (24 Hour)	0.00	0.00	0.00		
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Single Family Housing	1,893.34	1,970.06	1715.24	4,339,422	4,339,422
Unenclosed Parking Structure	202.00	202.00	202.00	153,839	153,839
Total	10,954.90	11,933.49	10,178.46	24,683,392	24,683,392

4.3 Trip Type Information

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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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Unenclosed Parking Structure	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Apartments Mid Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
City Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Convenience Market (24 Hour)	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Quality Restaurant	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Regional Shopping Center	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Single Family Housing	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Unenclosed Parking Structure	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,165.6874	1,165.6874	0.1888	0.0229	1,177.2298
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,179.4655	1,179.4655	0.1911	0.0232	1,191.1443
NaturalGas Mitigated	0.0490	0.4285	0.2475	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.3547	485.3547	9.3000e-003	8.9000e-003	488.2389
NaturalGas Unmitigated	0.0490	0.4285	0.2475	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.3547	485.3547	9.3000e-003	8.9000e-003	488.2389

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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					
Apartments Low Rise	1.19977e+006	6.4700e-003	0.0553	0.0235	3.5000e-004		4.4700e-003	4.4700e-003		4.4700e-003	4.4700e-003	0.0000	64.0242	64.0242	1.2300e-003	1.1700e-003	64.4047
Apartments Low Rise	980382	5.2900e-003	0.0452	0.0192	2.9000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	52.3169	52.3169	1.0000e-003	9.6000e-004	52.6278
Apartments Mid Rise	1.05809e+006	5.7100e-003	0.0488	0.0208	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4638	56.4638	1.0800e-003	1.0400e-003	56.7993
Apartments Mid Rise	686753	3.7000e-003	0.0316	0.0135	2.0000e-004		2.5600e-003	2.5600e-003		2.5600e-003	2.5600e-003	0.0000	36.6478	36.6478	7.0000e-004	6.7000e-004	36.8655
Apartments Mid Rise	782943	4.2200e-003	0.0361	0.0154	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	41.7808	41.7808	8.0000e-004	7.7000e-004	42.0291
City Park	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
Convenience Market (24 Hour)	7950	4.0000e-005	3.9000e-004	3.3000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4242	0.4242	1.0000e-005	1.0000e-005	0.4268
Quality Restaurant	1.585e+006	0.0171	0.1554	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.1633	169.1633	3.2400e-003	3.1000e-003	170.1685
Regional Shopping Center	15300	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6329	1.6329	3.0000e-005	3.0000e-005	1.6426
Single Family Housing	1.17872e+006	6.3600e-003	0.0543	0.0231	3.5000e-004		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	62.9007	62.9007	1.2100e-003	1.1500e-003	63.2745
Unenclosed Parking Structure	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		0.0491	0.4285	0.2475	2.6700e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.3547	485.3547	9.3000e-003	8.9000e-003	488.2389

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas 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					
Apartments Low Rise	1.19977e+006	6.4700e-003	0.0553	0.0235	3.5000e-004		4.4700e-003	4.4700e-003		4.4700e-003	4.4700e-003	0.0000	64.0242	64.0242	1.2300e-003	1.1700e-003	64.4047
Apartments Low Rise	980382	5.2900e-003	0.0452	0.0192	2.9000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	52.3169	52.3169	1.0000e-003	9.6000e-004	52.6278
Apartments Mid Rise	1.05809e+006	5.7100e-003	0.0488	0.0208	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4638	56.4638	1.0800e-003	1.0400e-003	56.7993
Apartments Mid Rise	686753	3.7000e-003	0.0316	0.0135	2.0000e-004		2.5600e-003	2.5600e-003		2.5600e-003	2.5600e-003	0.0000	36.6478	36.6478	7.0000e-004	6.7000e-004	36.8655
Apartments Mid Rise	782943	4.2200e-003	0.0361	0.0154	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	41.7808	41.7808	8.0000e-004	7.7000e-004	42.0291
City Park	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
Convenience Market (24 Hour)	7950	4.0000e-005	3.9000e-004	3.3000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4242	0.4242	1.0000e-005	1.0000e-005	0.4268
Quality Restaurant	1.585e+006	0.0171	0.1554	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.1633	169.1633	3.2400e-003	3.1000e-003	170.1685
Regional Shopping Center	15300	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6329	1.6329	3.0000e-005	3.0000e-005	1.6426
Single Family Housing	1.17872e+006	6.3600e-003	0.0543	0.0231	3.5000e-004		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	62.9007	62.9007	1.2100e-003	1.1500e-003	63.2745
Unenclosed Parking Structure	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		0.0491	0.4285	0.2475	2.6700e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.3547	485.3547	9.3000e-003	8.9000e-003	488.2389

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.01328e+006	93.6236	0.0152	1.8400e-003	94.5507
Apartments Low Rise	1.24003e+006	114.5744	0.0186	2.2500e-003	115.7088
Apartments Mid Rise	2.05475e+006	189.8521	0.0308	3.7300e-003	191.7319
Apartments Mid Rise	2.34255e+006	216.4437	0.0351	4.2500e-003	218.5869
Apartments Mid Rise	3.16578e+006	292.5082	0.0474	5.7400e-003	295.4046
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	65350	6.0381	9.8000e-004	1.2000e-004	6.0979
Quality Restaurant	318400	58.8383	9.5300e-003	1.1600e-003	59.4209
Regional Shopping Center	118600	21.9165	3.5500e-003	4.3000e-004	22.1335
Single Family Housing	1.96389e+006	181.4573	0.0294	3.5600e-003	183.2541
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,179.4655	0.1911	0.0232	1,191.1443

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.01328e+006	93.6236	0.0152	1.8400e-003	94.5507
Apartments Low Rise	1.24003e+006	114.5744	0.0186	2.2500e-003	115.7088
Apartments Mid Rise	2.02216e+006	186.8408	0.0303	3.6700e-003	188.6909
Apartments Mid Rise	2.30539e+006	213.0107	0.0345	4.1800e-003	215.1199
Apartments Mid Rise	3.11557e+006	287.8687	0.0466	5.6500e-003	290.7192
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	65350	6.0381	9.8000e-004	1.2000e-004	6.0979
Quality Restaurant	303820	56.1440	9.1000e-003	1.1000e-003	56.6999
Regional Shopping Center	118600	21.9165	3.5500e-003	4.3000e-004	22.1335
Single Family Housing	1.96389e+006	181.4573	0.0294	3.5600e-003	183.2541
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,165.6874	0.1889	0.0229	1,177.2298

6.0 Area Detail

6.1 Mitigation Measures Area

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	6.6934	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Unmitigated	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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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	1.6146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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	0.1443					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	6.6934	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

7.0 Water Detail

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	108.6290	3.6831	0.0881	226.9671
Unmitigated	142.6839	4.6050	0.1103	290.6747

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	41.438 / 26.1239	42.3118	1.3550	0.0325	85.8580
Apartments Mid Rise	73.624 / 46.4152	75.1767	2.4074	0.0577	152.5464
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.226996	0.3761	0.0121	2.9000e-004	0.7653
Quality Restaurant	6.07067 / 0.38749	5.0863	0.1983	4.7300e-003	11.4549
Regional Shopping Center	1.48145 / 0.907986	1.5043	0.0484	1.1600e-003	3.0610
Single Family Housing	17.8522 / 11.2546	18.2287	0.5838	0.0140	36.9891
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		142.6838	4.6050	0.1103	290.6747

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	33.1504 / 15.6744	32.1598	1.0837	0.0259	66.9800
Apartments Mid Rise	58.8992 / 27.8491	57.1393	1.9255	0.0461	119.0054
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.29629 / 0.136198	0.2862	9.6900e-003	2.3000e-004	0.5974
Quality Restaurant	4.85654 / 0.232494	4.0440	0.1587	3.7900e-003	9.1386
Regional Shopping Center	1.18516 / 0.544791	1.1447	0.0387	9.3000e-004	2.3895
Single Family Housing	14.2818 / 6.75279	13.8550	0.4669	0.0112	28.8562
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		108.6290	3.6831	0.0881	226.9671

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	467.7257	27.6418	0.0000	1,158,770 6
Unmitigated	935.4514	55.2836	0.0000	2,317,541 2

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	2522	511.9432	30.2550	0.0000	1,268.3176
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		935.4514	55.2836	0.0000	2,317.5412

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	710	144.1236	8.5175	0.0000	357.0601
Apartments Mid Rise	1261	255.9716	15.1275	0.0000	634.1588
City Park	1.405	0.2852	0.0169	0.0000	0.7066
Convenience Market (24 Hour)	7.515	1.5255	0.0902	0.0000	3.7793
Quality Restaurant	9.125	1.8523	0.1095	0.0000	4.5890
Regional Shopping Center	9.125	1.8523	0.1095	0.0000	4.5890
Single Family Housing	306	62.1152	3.6709	0.0000	153.8879
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		467.7257	27.6418	0.0000	1,158.7706

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

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Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	100.00	Space	0.00	40,000.00	0
City Park	30.00	Acre	30.00	1,306,800.00	0
City Park	2.73	Acre	2.73	118,918.80	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Apartments Low Rise	286.00	Dwelling Unit	8.97	286,000.00	818
Apartments Low Rise	350.00	Dwelling Unit	10.98	350,000.00	1001
Apartments Mid Rise	350.00	Dwelling Unit	4.62	350,000.00	1001
Apartments Mid Rise	473.00	Dwelling Unit	6.24	473,000.00	1353
Apartments Mid Rise	307.00	Dwelling Unit	4.05	307,000.00	878
Single Family Housing	274.00	Dwelling Unit	44.65	493,200.00	784
Convenience Market (24 Hour)	5.00	1000sqft	0.00	5,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year		2024	
Utility Company	Pacific Gas & Electric Company				

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CO2 Intensity (lb/MW hr)	203.7	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004
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1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Project operational year = 2024. Updated electricity emission factors to incorporate RPS for 2024.

Land Use - CalEEMod acreage scaled to match project acreage of 80 acres for Residential , retail and restaurant.

Construction Phase - Construction duration is from 2/1/2021 to 11/30/2028 based on Suncal schedule. Total construction days match inputs provided by AES. Exact start and end dates are defined by CalEEMod and won't exactly match AES/SunCal inputs

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment - Construction equipment updated to match inputs provided by developer/AES.

Off-road Equipment -

Off-road Equipment - Construction equipment updated to match inputs provided by developer/AES.

Off-road Equipment -

Trips and VMT - CalEEMod default trip rates

Demolition - Input provided by AES/developer.

Grading - Total soil quantity exported is 355,000 cu yd. Grading area for bay trail development is 2.73 acres. Grading area for project is 90 acres.

Vehicle Trips - Trip rates were obtained from the Traffic Impact Analysis Memo

Vehicle Emission Factors - Vehicle Emissions and Fleet Mix based on EMFAC 2017. See Air Quality Appendix Table A12 for EMFAC2017 inputs.

Road Dust - Updated silt loading factor is specific to Contra Costa county. See Air Quality Appendix Table EF2 for details.

Woodstoves - 600 Natural Gas fireplaces to be installed with the project.

Consumer Products - Consumer Product emission factors are updated to reflect statewide 2017 factors. See Air Quality Appendix Table A13 for further details.

Landscape Equipment - Total landscaping days set to zero

Energy Use - See Air Quality Appendix Table A14 for details on updated energy intensity values.

Solid Waste - See Air Quality Appendix Table A16 for details on updated solid waste generation rates.

Area Mitigation - Assuming "super-compliant" VOC paint for indoor and outdoor coatings - EFs from SCAQMD Rule 1113.

Energy Mitigation - Applying energy efficient appliances to residential units and restaurant.

Water Mitigation - Applying low-flow faucets, toilets and showers for indoor water use, with default reduction percentages.

Waste Mitigation - Applying 50% solid waste reduction measure.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency generators evaluated outside of CalEEMod.

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Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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

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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	220.00	110.00
tblConstructionPhase	NumDays	3,100.00	1,550.00
tblConstructionPhase	NumDays	200.00	78.00
tblConstructionPhase	NumDays	310.00	261.00
tblConstructionPhase	NumDays	310.00	262.00
tblConstructionPhase	NumDays	220.00	125.00
tblConstructionPhase	NumDays	120.00	89.00
tblConsumerProducts	ROG_EF	2.14E-05	1.55E-05
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	741.44	698.33
tblEnergyUse	LightingElect	4.88	5.88
tblEnergyUse	LightingElect	5.34	5.61
tblEnergyUse	LightingElect	4.88	5.12
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	1.75	1.14
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,054.10	2,848.06
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2,615.00	1,961.25

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tblEnergyUse	NT24NG	2,615.00	1,662.07
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	128.02	128.00
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	T24E	233.06	3,542.93
tblEnergyUse	T24E	426.45	3,146.60
tblEnergyUse	T24E	2.24	3.83
tblEnergyUse	T24E	2.67	5.26
tblEnergyUse	T24E	2.24	3.38
tblEnergyUse	T24E	217.68	7,167.49
tblEnergyUse	T24NG	17,734.50	1,466.66
tblEnergyUse	T24NG	6,115.43	574.91
tblEnergyUse	T24NG	3.90	0.59
tblEnergyUse	T24NG	39.90	30.50
tblEnergyUse	T24NG	3.90	0.53
tblEnergyUse	T24NG	39,708.76	2,340.63
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	95.40	600.00
tblFireplaces	NumberGas	169.50	0.00
tblFireplaces	NumberGas	68.50	0.00

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tblFireplaces	NumberNoFireplace	25.44	0.00
tblFireplaces	NumberNoFireplace	45.20	0.00
tblFireplaces	NumberNoFireplace	21.92	0.00
tblFireplaces	NumberWood	108.12	0.00
tblFireplaces	NumberWood	192.10	0.00
tblFireplaces	NumberWood	117.82	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06

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tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01

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tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblGrading	AcresOfGrading	1,696.50	90.00
tblGrading	AcresOfGrading	622.25	2.73
tblGrading	MaterialExported	0.00	344,550.00
tblGrading	MaterialExported	0.00	10,450.00
tblLandUse	LotAcreage	0.90	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	17.88	8.97
tblLandUse	LotAcreage	21.88	10.98
tblLandUse	LotAcreage	8.08	4.05
tblLandUse	LotAcreage	9.21	4.62
tblLandUse	LotAcreage	12.45	6.24
tblLandUse	LotAcreage	88.96	44.65
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblOffRoadEquipment	HorsePower	402.00	367.00
tblOffRoadEquipment	LoadFactor	0.38	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00

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tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	641.35	203.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblRoadDust	RoadSiltLoading	0.1	0.047
tblSolidWaste	SolidWasteGenerationRate	292.56	1,420.00
tblSolidWaste	SolidWasteGenerationRate	519.80	2,522.00
tblSolidWaste	SolidWasteGenerationRate	21.00	18.25
tblSolidWaste	SolidWasteGenerationRate	329.28	612.00
tblVehicleEF	HHD	0.41	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.58	6.28
tblVehicleEF	HHD	0.84	0.40
tblVehicleEF	HHD	2.87	5.3000e-003
tblVehicleEF	HHD	4,335.05	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.83	5.34
tblVehicleEF	HHD	1.90	2.66
tblVehicleEF	HHD	19.75	2.36
tblVehicleEF	HHD	7.9210e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	7.5790e-003	2.5000e-003

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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.41	0.42
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3500e-004	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.48	0.49
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.39	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.15	6.28
tblVehicleEF	HHD	0.85	0.40
tblVehicleEF	HHD	2.61	5.3000e-003

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tblVehicleEF	HHD	4,592.60	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	14.28	5.34
tblVehicleEF	HHD	1.83	2.66
tblVehicleEF	HHD	19.74	2.36
tblVehicleEF	HHD	6.6780e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	6.3890e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.39	0.42
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3100e-004	0.00
tblVehicleEF	HHD	2.0200e-004	0.00

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tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.45	0.49
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.45	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.17	6.28
tblVehicleEF	HHD	0.83	0.40
tblVehicleEF	HHD	3.11	5.3000e-003
tblVehicleEF	HHD	3,979.39	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.22	5.34
tblVehicleEF	HHD	1.93	2.66
tblVehicleEF	HHD	19.77	2.36
tblVehicleEF	HHD	9.6380e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	9.2210e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02

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tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.51	0.49
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	LDA	3.2820e-003	1.8000e-003
tblVehicleEF	LDA	4.5120e-003	0.05
tblVehicleEF	LDA	0.48	0.52
tblVehicleEF	LDA	1.04	2.15
tblVehicleEF	LDA	229.87	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04

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tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.2620e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.3010e-003	2.4000e-003
tblVehicleEF	LDA	5.4600e-004	5.0000e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	3.7280e-003	1.8000e-003
tblVehicleEF	LDA	3.6390e-003	0.05
tblVehicleEF	LDA	0.58	0.52
tblVehicleEF	LDA	0.80	2.15
tblVehicleEF	LDA	251.31	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.17

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tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	9.3650e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.21
tblVehicleEF	LDA	2.5170e-003	2.4000e-003
tblVehicleEF	LDA	5.4200e-004	5.0000e-004
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.23
tblVehicleEF	LDA	3.1830e-003	1.8000e-003
tblVehicleEF	LDA	5.1540e-003	0.05
tblVehicleEF	LDA	0.47	0.52
tblVehicleEF	LDA	1.24	2.15
tblVehicleEF	LDA	226.93	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.05	0.03

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tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	8.0170e-003	6.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.2720e-003	2.4000e-003
tblVehicleEF	LDA	5.4900e-004	5.0000e-004
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDT1	6.8390e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.88	0.87
tblVehicleEF	LDT1	2.31	2.34
tblVehicleEF	LDT1	287.67	287.73
tblVehicleEF	LDT1	66.83	61.75

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tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.13	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.15	0.32
tblVehicleEF	LDT1	2.8860e-003	2.8000e-003
tblVehicleEF	LDT1	7.0800e-004	6.0000e-004
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.16	0.35
tblVehicleEF	LDT1	7.6930e-003	3.8000e-003
tblVehicleEF	LDT1	8.8990e-003	0.07
tblVehicleEF	LDT1	1.05	0.87
tblVehicleEF	LDT1	1.76	2.34
tblVehicleEF	LDT1	313.61	287.73

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tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.11	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.12	0.32
tblVehicleEF	LDT1	3.1480e-003	2.8000e-003
tblVehicleEF	LDT1	6.9900e-004	6.0000e-004
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.13	0.35
tblVehicleEF	LDT1	6.6770e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.87	0.87
tblVehicleEF	LDT1	2.76	2.34

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tblVehicleEF	LDT1	284.11	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.10	0.07
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8500e-003	2.8000e-003
tblVehicleEF	LDT1	7.1600e-004	6.0000e-004
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT2	4.4150e-003	2.9000e-003
tblVehicleEF	LDT2	5.8360e-003	0.06
tblVehicleEF	LDT2	0.62	0.70

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tblVehicleEF	LDT2	1.34	2.74
tblVehicleEF	LDT2	323.78	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.2420e-003	3.0000e-003
tblVehicleEF	LDT2	7.6900e-004	7.0000e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.0080e-003	2.9000e-003
tblVehicleEF	LDT2	4.7080e-003	0.06

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tblVehicleEF	LDT2	0.75	0.70
tblVehicleEF	LDT2	1.03	2.74
tblVehicleEF	LDT2	353.38	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	3.5390e-003	3.0000e-003
tblVehicleEF	LDT2	7.6400e-004	7.0000e-004
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.32
tblVehicleEF	LDT2	4.2820e-003	2.9000e-003

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tblVehicleEF	LDT2	6.6640e-003	0.06
tblVehicleEF	LDT2	0.60	0.70
tblVehicleEF	LDT2	1.58	2.74
tblVehicleEF	LDT2	319.73	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.2010e-003	3.0000e-003
tblVehicleEF	LDT2	7.7400e-004	7.0000e-004
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.10	0.32

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tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.99	0.77
tblVehicleEF	LHD1	2.29	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.39	0.94
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10

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tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.01	0.77
tblVehicleEF	LHD1	2.10	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.33	0.94
tblVehicleEF	LHD1	0.87	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003

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tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.3800e-004	1.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.16	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.24	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01

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tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.77
tblVehicleEF	LHD1	2.47	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.42	0.94
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004

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tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4500e-004	1.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.0300e-003	6.9000e-003
tblVehicleEF	LHD2	5.6740e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	1.02	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.77	0.98
tblVehicleEF	LHD2	0.40	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003

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tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.1180e-003	6.9000e-003
tblVehicleEF	LHD2	5.3450e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	0.94	0.55

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tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.74	0.98
tblVehicleEF	LHD2	0.38	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4200e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004

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tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	6.9590e-003	6.9000e-003
tblVehicleEF	LHD2	5.9550e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.64
tblVehicleEF	LHD2	1.09	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.78	0.98
tblVehicleEF	LHD2	0.42	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02

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tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.16	0.26
tblVehicleEF	MCY	19.70	20.00
tblVehicleEF	MCY	10.22	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01

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tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.27	2.29
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	2.1230e-003	2.1000e-003
tblVehicleEF	MCY	6.8900e-004	6.0000e-004
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.81	2.82
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.43	2.15
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.13	0.26
tblVehicleEF	MCY	18.98	20.00
tblVehicleEF	MCY	8.86	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.02	1.16
tblVehicleEF	MCY	0.29	0.27

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tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.18	2.29
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.83	1.98
tblVehicleEF	MCY	2.1090e-003	2.1000e-003
tblVehicleEF	MCY	6.5400e-004	6.0000e-004
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.70	2.82
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.99	2.15
tblVehicleEF	MCY	0.47	0.34
tblVehicleEF	MCY	0.19	0.26
tblVehicleEF	MCY	21.47	20.00
tblVehicleEF	MCY	11.78	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.25	1.16

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tblVehicleEF	MCY	0.35	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.37	2.29
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.62	1.98
tblVehicleEF	MCY	2.1550e-003	2.1000e-003
tblVehicleEF	MCY	7.2600e-004	6.0000e-004
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.94	2.82
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.85	2.15
tblVehicleEF	MDV	8.6020e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.97	0.82
tblVehicleEF	MDV	2.71	3.10
tblVehicleEF	MDV	443.89	379.50
tblVehicleEF	MDV	101.43	81.06

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tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.24	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4430e-003	3.8000e-003
tblVehicleEF	MDV	1.0620e-003	8.0000e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	9.7400e-003	3.8000e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.18	0.82
tblVehicleEF	MDV	2.08	3.10
tblVehicleEF	MDV	483.31	379.50

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tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.21	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.38
tblVehicleEF	MDV	4.8400e-003	3.8000e-003
tblVehicleEF	MDV	1.0500e-003	8.0000e-004
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.04	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.42
tblVehicleEF	MDV	8.3570e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.96	0.82
tblVehicleEF	MDV	3.22	3.10

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tblVehicleEF	MDV	438.49	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.23	0.38
tblVehicleEF	MDV	4.3890e-003	3.8000e-003
tblVehicleEF	MDV	1.0710e-003	8.0000e-004
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.25	0.42
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.46	0.85

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tblVehicleEF	MH	4.96	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.34	1.52
tblVehicleEF	MH	0.78	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.6600e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.32	0.10

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tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.52	0.85
tblVehicleEF	MH	4.45	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.26	1.52
tblVehicleEF	MH	0.72	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.27	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5800e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23

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tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.41	0.85
tblVehicleEF	MH	5.39	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.38	1.52
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7400e-004	2.0000e-004

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tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.4400e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.37	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.47	1.19
tblVehicleEF	MHD	134.03	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.38	0.52
tblVehicleEF	MHD	1.11	1.47
tblVehicleEF	MHD	10.23	1.66
tblVehicleEF	MHD	1.4100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.3500e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004

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tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	1.2910e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0200e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.01	4.0000e-003
tblVehicleEF	MHD	4.5430e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.43
tblVehicleEF	MHD	0.36	0.27
tblVehicleEF	MHD	4.98	1.19
tblVehicleEF	MHD	142.13	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.40	0.52
tblVehicleEF	MHD	1.07	1.47

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tblVehicleEF	MHD	10.17	1.66
tblVehicleEF	MHD	1.1900e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.1400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	1.3670e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9400e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	0.02	4.0000e-003

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tblVehicleEF	MHD	4.3600e-003	2.1000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.94	1.19
tblVehicleEF	MHD	123.22	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.37	0.52
tblVehicleEF	MHD	1.13	1.47
tblVehicleEF	MHD	10.28	1.66
tblVehicleEF	MHD	1.7100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.6400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	1.1890e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01

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tblVehicleEF	MHD	7.1000e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.3020e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.53	0.98
tblVehicleEF	OBUS	5.50	2.88
tblVehicleEF	OBUS	71.68	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.14	0.23
tblVehicleEF	OBUS	0.75	1.13
tblVehicleEF	OBUS	2.17	0.68
tblVehicleEF	OBUS	1.3000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004

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tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.34	0.14
tblVehicleEF	OBUS	6.9600e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.37	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.5680e-003	9.0000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	4.94	2.88
tblVehicleEF	OBUS	74.94	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.15	0.23

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

tblVehicleEF	OBUS	0.71	1.13
tblVehicleEF	OBUS	2.10	0.68
tblVehicleEF	OBUS	1.1000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.32	0.14
tblVehicleEF	OBUS	7.2700e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7700e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.35	0.15

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tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.0920e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.52	0.98
tblVehicleEF	OBUS	5.95	2.88
tblVehicleEF	OBUS	67.19	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.13	0.23
tblVehicleEF	OBUS	0.77	1.13
tblVehicleEF	OBUS	2.23	0.68
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.36	0.14

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tblVehicleEF	OBUS	6.5300e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9500e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1030e-003	2.6000e-003
tblVehicleEF	SBUS	0.06	1.3000e-003
tblVehicleEF	SBUS	2.09	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.33	0.19
tblVehicleEF	SBUS	1,440.18	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.22	2.23
tblVehicleEF	SBUS	4.78	2.75
tblVehicleEF	SBUS	19.18	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003

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tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2700e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	8.0000e-003
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1440e-003	2.6000e-003
tblVehicleEF	SBUS	0.05	1.3000e-003
tblVehicleEF	SBUS	1.93	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	0.91	0.19
tblVehicleEF	SBUS	1,522.68	299.60

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tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.64	2.23
tblVehicleEF	SBUS	4.59	2.75
tblVehicleEF	SBUS	19.17	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	9.5970e-003	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.24	0.09
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.05	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2100e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.33	0.12
tblVehicleEF	SBUS	4.7800e-004	0.00

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tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.06	8.0000e-003
tblVehicleEF	SBUS	0.88	0.02
tblVehicleEF	SBUS	6.0730e-003	2.6000e-003
tblVehicleEF	SBUS	0.07	1.3000e-003
tblVehicleEF	SBUS	2.33	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.66	0.19
tblVehicleEF	SBUS	1,326.25	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	12.63	2.23
tblVehicleEF	SBUS	4.86	2.75
tblVehicleEF	SBUS	19.19	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	9.7000e-005	0.00

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tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.3300e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	8.0000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.07	1.5000e-003
tblVehicleEF	UBUS	4.04	8.13
tblVehicleEF	UBUS	11.74	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.66	0.64
tblVehicleEF	UBUS	12.20	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003

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tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.98	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7290e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.65	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	1.08	5.8000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.06	1.5000e-003
tblVehicleEF	UBUS	4.11	8.13
tblVehicleEF	UBUS	9.17	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.41	0.64
tblVehicleEF	UBUS	12.07	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003

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tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.39	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.85	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.6840e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.66	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.93	5.8000e-003
tblVehicleEF	UBUS	0.23	1.10
tblVehicleEF	UBUS	0.08	1.5000e-003
tblVehicleEF	UBUS	4.00	8.13
tblVehicleEF	UBUS	14.08	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.77	0.64
tblVehicleEF	UBUS	12.31	0.03

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tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.10	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7700e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.64	1.12
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.20	5.8000e-003
tblVehicleTrips	CC_TTP	0.00	80.10
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	0.90
tblVehicleTrips	DV_TP	18.00	40.00
tblVehicleTrips	DV_TP	35.00	40.00

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tblVehicleTrips	DV_TP	0.00	15.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	0.00	61.00
tblVehicleTrips	PR_TP	38.00	60.00
tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	PR_TP	0.00	24.00
tblVehicleTrips	ST_TR	7.16	5.87
tblVehicleTrips	ST_TR	6.39	3.77
tblVehicleTrips	ST_TR	863.10	0.00
tblVehicleTrips	ST_TR	94.36	24.19
tblVehicleTrips	ST_TR	49.97	26.98
tblVehicleTrips	ST_TR	9.91	7.19
tblVehicleTrips	ST_TR	0.00	2.02
tblVehicleTrips	SU_TR	6.07	4.97
tblVehicleTrips	SU_TR	5.86	3.46
tblVehicleTrips	SU_TR	758.45	0.00
tblVehicleTrips	SU_TR	72.16	18.50
tblVehicleTrips	SU_TR	25.24	13.63
tblVehicleTrips	SU_TR	8.62	6.26
tblVehicleTrips	SU_TR	0.00	2.02
tblVehicleTrips	WD_TR	6.59	5.40
tblVehicleTrips	WD_TR	6.65	3.93
tblVehicleTrips	WD_TR	737.99	0.00
tblVehicleTrips	WD_TR	89.95	23.06
tblVehicleTrips	WD_TR	42.70	23.06
tblVehicleTrips	WD_TR	9.52	6.91

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tblVehicleTrips	WD_TR	0.00	2.02
tblWater	OutdoorWaterUseRate	38,997,184.57	0.00
tblWoodstoves	NumberCatalytic	12.72	0.00
tblWoodstoves	NumberCatalytic	22.60	0.00
tblWoodstoves	NumberCatalytic	10.96	0.00
tblWoodstoves	NumberNoncatalytic	12.72	0.00
tblWoodstoves	NumberNoncatalytic	22.60	0.00
tblWoodstoves	NumberNoncatalytic	10.96	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

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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					
2021	1.2161	16.2072	8.5517	0.0283	1.8677	0.5252	2.3929	0.8817	0.4842	1.3658	0.0000	2,597.7828	2,597.7828	0.4832	0.0000	2,609.8618
2022	0.7771	8.8607	6.3025	0.0185	1.1548	0.3089	1.4637	0.4889	0.2845	0.7734	0.0000	1,665.0865	1,665.0865	0.3862	0.0000	1,674.7403
2023	13.8535	8.0501	10.0238	0.0409	2.7108	0.1637	2.8746	0.7573	0.1547	0.9120	0.0000	3,759.6173	3,759.6173	0.2094	0.0000	3,764.8524
2024	4.5389	6.7742	8.3545	0.0372	2.5196	0.1044	2.6240	0.6794	0.0984	0.7778	0.0000	3,430.0241	3,430.0241	0.1582	0.0000	3,433.9797
2025	0.9266	6.3971	7.6609	0.0356	2.4721	0.0864	2.5586	0.6667	0.0811	0.7479	0.0000	3,290.3063	3,290.3063	0.1511	0.0000	3,294.0837
2026	0.8897	6.3038	7.3274	0.0349	2.4721	0.0860	2.5581	0.6667	0.0807	0.7474	0.0000	3,225.3222	3,225.3222	0.1474	0.0000	3,229.0060
2027	0.8548	6.2134	7.0366	0.0343	2.4721	0.0852	2.5573	0.6667	0.0800	0.7467	0.0000	3,167.4309	3,167.4309	0.1440	0.0000	3,171.0301
2028	0.7510	5.6194	6.2147	0.0309	2.2638	0.0772	2.3409	0.6105	0.0725	0.6830	0.0000	2,854.2982	2,854.2982	0.1291	0.0000	2,857.5262
Maximum	13.8535	16.2072	10.0238	0.0409	2.7108	0.5252	2.8746	0.8817	0.4842	1.3658	0.0000	3,759.6173	3,759.6173	0.4832	0.0000	3,764.8524

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2.1 Overall Construction

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					
2021	0.4376	6.6648	8.7730	0.0283	1.0488	0.0969	1.1457	0.4528	0.0913	0.5441	0.0000	2,597.781 2	2,597.781 2	0.4832	0.0000	2,609.860 2
2022	0.3649	3.8941	7.0339	0.0185	0.7387	0.1010	0.8398	0.2765	0.0944	0.3709	0.0000	1,665.085 2	1,665.085 2	0.3862	0.0000	1,674.738 9
2023	13.5888	5.5257	10.3178	0.0409	2.6563	0.0329	2.6892	0.7278	0.0312	0.7590	0.0000	3,759.616 7	3,759.616 7	0.2094	0.0000	3,764.851 7
2024	4.3745	5.2011	8.5261	0.0372	2.5196	0.0239	2.5436	0.6794	0.0227	0.7021	0.0000	3,430.023 7	3,430.023 7	0.1582	0.0000	3,433.979 3
2025	0.7910	5.0614	7.8404	0.0356	2.4721	0.0229	2.4950	0.6667	0.0217	0.6884	0.0000	3,290.306 0	3,290.306 0	0.1511	0.0000	3,294.083 4
2026	0.7540	4.9682	7.5069	0.0349	2.4721	0.0224	2.4946	0.6667	0.0212	0.6880	0.0000	3,225.321 9	3,225.321 9	0.1474	0.0000	3,229.005 6
2027	0.7192	4.8778	7.2161	0.0343	2.4721	0.0217	2.4938	0.6667	0.0206	0.6873	0.0000	3,167.430 5	3,167.430 5	0.1440	0.0000	3,171.029 7
2028	0.6268	4.3963	6.3791	0.0309	2.2638	0.0190	2.2828	0.6105	0.0180	0.6286	0.0000	2,854.297 9	2,854.297 9	0.1291	0.0000	2,857.525 8
Maximum	13.5888	6.6648	10.3178	0.0409	2.6563	0.1010	2.6892	0.7278	0.0944	0.7590	0.0000	3,759.616 7	3,759.616 7	0.4832	0.0000	3,764.851 7

	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	9.03	37.00	-3.45	0.00	7.19	76.28	12.32	12.38	75.97	24.96	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)
3	1-9-2021	4-8-2021	1.8744	0.3128
4	4-9-2021	7-8-2021	6.4655	2.3613

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5	7-9-2021	10-8-2021	4.6653	2.2626
6	10-9-2021	1-8-2022	4.7981	2.3432
7	1-9-2022	4-8-2022	5.8680	2.7579
8	4-9-2022	7-8-2022	1.7323	0.7220
9	7-9-2022	10-8-2022	1.4094	0.3880
10	10-9-2022	1-8-2023	1.8130	0.7166
11	1-9-2023	4-8-2023	2.6803	1.7419
12	4-9-2023	7-8-2023	1.9602	1.5249
13	7-9-2023	10-8-2023	6.1560	5.5708
14	10-9-2023	1-8-2024	12.1104	11.3242
15	1-9-2024	4-8-2024	4.5452	4.0587
16	4-9-2024	7-8-2024	1.8882	1.4868
17	7-9-2024	10-8-2024	1.9118	1.5059
18	10-9-2024	1-8-2025	1.9351	1.5323
19	1-9-2025	4-8-2025	1.8251	1.4627
20	4-9-2025	7-8-2025	1.8180	1.4516
21	7-9-2025	10-8-2025	1.8406	1.4702
22	10-9-2025	1-8-2026	1.8653	1.4949
23	1-9-2026	4-8-2026	1.7917	1.4293
24	4-9-2026	7-8-2026	1.7859	1.4194
25	7-9-2026	10-8-2026	1.8080	1.4375
26	10-9-2026	1-8-2027	1.8312	1.4607
27	1-9-2027	4-8-2027	1.7596	1.3972
28	4-9-2027	7-8-2027	1.7549	1.3885
29	7-9-2027	10-8-2027	1.7766	1.4061
30	10-9-2027	1-8-2028	1.7986	1.4281
31	1-9-2028	4-8-2028	1.7502	1.3838

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32	4-9-2028	7-8-2028	1.7273	1.3609
33	7-9-2028	9-30-2028	1.5945	1.2562
		Highest	12.1104	11.3242

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	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.0490	0.4285	0.2475	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	1,664.8201	1,664.8201	0.2004	0.0321	1,679.3832
Mobile	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Waste						0.0000	0.0000		0.0000	0.0000	935.4514	0.0000	935.4514	55.2836	0.0000	2,317.5412
Water						0.0000	0.0000		0.0000	0.0000	44.6810	98.0029	142.6839	4.6050	0.1103	290.6747
Total	11.1468	6.6722	30.8187	0.0943	5.2810	0.1160	5.3970	1.4999	0.1112	1.6112	980.1324	10,297.5369	11,277.6692	60.4636	0.1451	12,832.4966

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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	6.6934	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.0490	0.4285	0.2475	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	1,651.0421	1,651.0421	0.1982	0.0318	1,665.4687
Mobile	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Waste						0.0000	0.0000		0.0000	0.0000	467.7257	0.0000	467.7257	27.6418	0.0000	1,158.7706
Water						0.0000	0.0000		0.0000	0.0000	35.7448	83.9204	119.6651	3.6849	0.0883	238.1125
Total	9.6765	6.6722	30.8187	0.0943	5.2810	0.1160	5.3970	1.4999	0.1112	1.6112	503.4705	10,269.6763	10,773.1468	31.8995	0.1229	11,607.2492

	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	13.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.63	0.27	4.47	47.24	15.31	9.55

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2021	5/19/2021	5	78	
2	Site Preparation	Site Preparation	3/1/2021	7/1/2021	5	89	
3	Grading	Grading	4/1/2021	3/31/2022	5	261	
4	Paving	Paving	1/1/2022	6/24/2022	5	125	
5	Bay Trail Grading	Grading	3/1/2022	3/1/2023	5	262	
6	Building Construction	Building Construction	12/23/2022	11/30/2028	5	1550	
7	Architectural Coating	Architectural Coating	9/1/2023	2/1/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 4,574,880; Residential Outdoor: 1,524,960; Non-Residential Indoor: 67,500; Non-Residential Outdoor: 22,500; Striped Parking Area: 2,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	6	8.00	367	0.48

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Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Bay Trail Grading	Excavators	1	6.00	158	0.38
Bay Trail Grading	Graders	1	6.00	187	0.41
Bay Trail Grading	Off-Highway Trucks	1	8.00	367	0.48
Bay Trail Grading	Paving Equipment	1	8.00	132	0.36
Bay Trail Grading	Plate Compactors	1	8.00	8	0.43
Bay Trail Grading	Rubber Tired Dozers	1	6.00	247	0.40
Bay Trail Grading	Scrapers	2	8.00	367	0.48
Bay Trail Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	8	6.00	78	0.48

Trips and VMT

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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
Demolition	6	15.00	0.00	227.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	30.00	0.00	43,069.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Bay Trail Grading	9	23.00	0.00	1,306.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,002.00	466.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	400.00	0.00	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

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

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					0.0246	0.0000	0.0246	3.7300e-003	0.0000	3.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1234	1.2262	0.8410	1.5100e-003		0.0605	0.0605		0.0562	0.0562	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361
Total	0.1234	1.2262	0.8410	1.5100e-003	0.0246	0.0605	0.0851	3.7300e-003	0.0562	0.0599	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

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					0.0111	0.0000	0.0111	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.0781	0.9079	1.5100e-003		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360
Total	0.0180	0.0781	0.9079	1.5100e-003	0.0111	2.4000e-003	0.0135	1.6800e-003	2.4000e-003	4.0800e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

3.3 Site Preparation - 2021

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					0.8040	0.0000	0.8040	0.4419	0.0000	0.4419	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1730	1.8021	0.9414	1.6900e-003		0.0910	0.0910		0.0837	0.0837	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920
Total	0.1730	1.8021	0.9414	1.6900e-003	0.8040	0.0910	0.8949	0.4419	0.0837	0.5256	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

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					0.3618	0.0000	0.3618	0.1989	0.0000	0.1989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.0898	0.9287	1.6900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918
Total	0.0207	0.0898	0.9287	1.6900e-003	0.3618	2.7600e-003	0.3645	0.1989	2.7600e-003	0.2016	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

3.4 Grading - 2021

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					0.6604	0.0000	0.6604	0.3342	0.0000	0.3342	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7790	8.7873	5.8014	0.0121		0.3596	0.3596		0.3308	0.3308	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347
Total	0.7790	8.7873	5.8014	0.0121	0.6604	0.3596	1.0200	0.3342	0.3308	0.6650	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

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					0.2972	0.0000	0.2972	0.1504	0.0000	0.1504	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2582	2.1053	5.9685	0.0121		0.0776	0.0776		0.0727	0.0727	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334
Total	0.2582	2.1053	5.9685	0.0121	0.2972	0.0776	0.3748	0.1504	0.0727	0.2231	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

3.4 Grading - 2022

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					0.2599	0.0000	0.2599	0.1140	0.0000	0.1140	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2209	2.3878	1.7454	3.9300e-003		0.0970	0.0970		0.0892	0.0892	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322
Total	0.2209	2.3878	1.7454	3.9300e-003	0.2599	0.0970	0.3569	0.1140	0.0892	0.2033	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

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					0.1170	0.0000	0.1170	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0786	0.5995	1.9088	3.9300e-003		0.0220	0.0220		0.0207	0.0207	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318
Total	0.0786	0.5995	1.9088	3.9300e-003	0.1170	0.0220	0.1390	0.0513	0.0207	0.0720	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

3.5 Paving - 2022

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

3.6 Bay Trail Grading - 2022

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					0.4966	0.0000	0.4966	0.2721	0.0000	0.2721	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4053	4.1437	3.0396	7.4600e-003		0.1689	0.1689		0.1555	0.1555	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293
Total	0.4053	4.1437	3.0396	7.4600e-003	0.4966	0.1689	0.6655	0.2721	0.1555	0.4276	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

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					0.2235	0.0000	0.2235	0.1224	0.0000	0.1224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1395	1.0055	3.6043	7.4600e-003		0.0384	0.0384		0.0361	0.0361	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286
Total	0.1395	1.0055	3.6043	7.4600e-003	0.2235	0.0384	0.2619	0.1224	0.0361	0.1586	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

3.6 Bay Trail Grading - 2023

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					0.0991	0.0000	0.0991	0.0536	0.0000	0.0536	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.7283	0.5768	1.4700e-003		0.0293	0.0293		0.0270	0.0270	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717
Total	0.0740	0.7283	0.5768	1.4700e-003	0.0991	0.0293	0.1284	0.0536	0.0270	0.0806	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

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					0.0446	0.0000	0.0446	0.0241	0.0000	0.0241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.1874	0.7054	1.4700e-003		7.1300e-003	7.1300e-003		6.7200e-003	6.7200e-003	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716
Total	0.0269	0.1874	0.7054	1.4700e-003	0.0446	7.1300e-003	0.0518	0.0241	6.7200e-003	0.0309	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

3.7 Building Construction - 2022

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	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.2700e-003	0.1365	0.0344	3.7000e-004	9.1900e-003	2.8000e-004	9.4800e-003	2.6600e-003	2.7000e-004	2.9300e-003	0.0000	35.7965	35.7965	1.5900e-003	0.0000	35.8363
Worker	0.0173	0.0117	0.1264	4.3000e-004	0.0476	3.0000e-004	0.0479	0.0127	2.8000e-004	0.0130	0.0000	38.8111	38.8111	8.2000e-004	0.0000	38.8317
Total	0.0216	0.1481	0.1608	8.0000e-004	0.0568	5.8000e-004	0.0574	0.0153	5.5000e-004	0.0159	0.0000	74.6076	74.6076	2.4100e-003	0.0000	74.6679

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	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.2700e-003	0.1365	0.0344	3.7000e-004	9.1900e-003	2.8000e-004	9.4800e-003	2.6600e-003	2.7000e-004	2.9300e-003	0.0000	35.7965	35.7965	1.5900e-003	0.0000	35.8363
Worker	0.0173	0.0117	0.1264	4.3000e-004	0.0476	3.0000e-004	0.0479	0.0127	2.8000e-004	0.0130	0.0000	38.8111	38.8111	8.2000e-004	0.0000	38.8317
Total	0.0216	0.1481	0.1608	8.0000e-004	0.0568	5.8000e-004	0.0574	0.0153	5.5000e-004	0.0159	0.0000	74.6076	74.6076	2.4100e-003	0.0000	74.6679

3.7 Building Construction - 2023

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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3.7 Building Construction - 2023

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	0.1396	4.5017	1.3296	0.0158	0.3985	5.3700e-003	0.4038	0.1152	5.1400e-003	0.1203	0.0000	1,508.0032	1,508.0032	0.0567	0.0000	1,509.4213
Worker	0.6980	0.4536	5.0353	0.0179	2.0642	0.0128	2.0770	0.5490	0.0118	0.5608	0.0000	1,616.4807	1,616.4807	0.0319	0.0000	1,617.2777
Total	0.8375	4.9553	6.3649	0.0336	2.4626	0.0182	2.4808	0.6642	0.0170	0.6811	0.0000	3,124.4839	3,124.4839	0.0886	0.0000	3,126.6991

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	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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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	0.1396	4.5017	1.3296	0.0158	0.3985	5.3700e-003	0.4038	0.1152	5.1400e-003	0.1203	0.0000	1,508.0032	1,508.0032	0.0567	0.0000	1,509.4213
Worker	0.6980	0.4536	5.0353	0.0179	2.0642	0.0128	2.0770	0.5490	0.0118	0.5608	0.0000	1,616.4807	1,616.4807	0.0319	0.0000	1,617.2777
Total	0.8375	4.9553	6.3649	0.0336	2.4626	0.0182	2.4808	0.6642	0.0170	0.6811	0.0000	3,124.4839	3,124.4839	0.0886	0.0000	3,126.6991

3.7 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

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3.7 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	0.1358	4.4765	1.2848	0.0158	0.4015	5.3000e-003	0.4068	0.1161	5.0700e-003	0.1212	0.0000	1,509.6770	1,509.6770	0.0556	0.0000	1,511.0675
Worker	0.6581	0.4120	4.6922	0.0173	2.0800	0.0127	2.0927	0.5532	0.0117	0.5649	0.0000	1,563.4979	1,563.4979	0.0289	0.0000	1,564.2198
Total	0.7938	4.8885	5.9770	0.0330	2.4816	0.0180	2.4995	0.6693	0.0167	0.6860	0.0000	3,073.1749	3,073.1749	0.0845	0.0000	3,075.2872

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	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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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	0.1358	4.4765	1.2848	0.0158	0.4015	5.3000e-003	0.4068	0.1161	5.0700e-003	0.1212	0.0000	1,509.6770	1,509.6770	0.0556	0.0000	1,511.0675
Worker	0.6581	0.4120	4.6922	0.0173	2.0800	0.0127	2.0927	0.5532	0.0117	0.5649	0.0000	1,563.4979	1,563.4979	0.0289	0.0000	1,564.2198
Total	0.7938	4.8885	5.9770	0.0330	2.4816	0.0180	2.4995	0.6693	0.0167	0.6860	0.0000	3,073.1749	3,073.1749	0.0845	0.0000	3,075.2872

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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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	0.1312	4.3973	1.2383	0.0156	0.4000	5.1700e-003	0.4052	0.1156	4.9400e-003	0.1206	0.0000	1,494.3974	1,494.3974	0.0539	0.0000	1,495.7457
Worker	0.6170	0.3725	4.3235	0.0165	2.0721	0.0124	2.0845	0.5511	0.0114	0.5625	0.0000	1,493.2540	1,493.2540	0.0260	0.0000	1,493.9045
Total	0.7482	4.7698	5.5618	0.0321	2.4721	0.0176	2.4897	0.6667	0.0164	0.6831	0.0000	2,987.6514	2,987.6514	0.0800	0.0000	2,989.6502

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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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	0.1312	4.3973	1.2383	0.0156	0.4000	5.1700e-003	0.4052	0.1156	4.9400e-003	0.1206	0.0000	1,494.3974	1,494.3974	0.0539	0.0000	1,495.7457
Worker	0.6170	0.3725	4.3235	0.0165	2.0721	0.0124	2.0845	0.5511	0.0114	0.5625	0.0000	1,493.2540	1,493.2540	0.0260	0.0000	1,493.9045
Total	0.7482	4.7698	5.5618	0.0321	2.4721	0.0176	2.4897	0.6667	0.0164	0.6831	0.0000	2,987.6514	2,987.6514	0.0800	0.0000	2,989.6502

3.7 Building Construction - 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					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 Building Construction - 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	0.0000	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	0.1277	4.3363	1.2071	0.0155	0.4000	5.0400e-003	0.4051	0.1157	4.8100e-003	0.1205	0.0000	1,485.7378	1,485.7378	0.0526	0.0000	1,487.0517
Worker	0.5835	0.3403	4.0212	0.0159	2.0721	0.0121	2.0842	0.5511	0.0111	0.5622	0.0000	1,436.9296	1,436.9296	0.0237	0.0000	1,437.5208
Total	0.7112	4.6765	5.2284	0.0314	2.4721	0.0171	2.4892	0.6667	0.0159	0.6827	0.0000	2,922.6673	2,922.6673	0.0762	0.0000	2,924.5725

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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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	0.1277	4.3363	1.2071	0.0155	0.4000	5.0400e-003	0.4051	0.1157	4.8100e-003	0.1205	0.0000	1,485.7378	1,485.7378	0.0526	0.0000	1,487.0517
Worker	0.5835	0.3403	4.0212	0.0159	2.0721	0.0121	2.0842	0.5511	0.0111	0.5622	0.0000	1,436.9296	1,436.9296	0.0237	0.0000	1,437.5208
Total	0.7112	4.6765	5.2284	0.0314	2.4721	0.0171	2.4892	0.6667	0.0159	0.6827	0.0000	2,922.6673	2,922.6673	0.0762	0.0000	2,924.5725

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1247	4.2743	1.1822	0.0154	0.4000	4.9100e-003	0.4050	0.1157	4.6900e-003	0.1204	0.0000	1,477.5860	1,477.5860	0.0513	0.0000	1,478.8675
Worker	0.5516	0.3119	3.7554	0.0153	2.0721	0.0115	2.0836	0.5511	0.0105	0.5616	0.0000	1,387.1900	1,387.1900	0.0216	0.0000	1,387.7291
Total	0.6764	4.5862	4.9376	0.0307	2.4721	0.0164	2.4885	0.6667	0.0152	0.6820	0.0000	2,864.7760	2,864.7760	0.0728	0.0000	2,866.5965

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1247	4.2743	1.1822	0.0154	0.4000	4.9100e-003	0.4050	0.1157	4.6900e-003	0.1204	0.0000	1,477.5860	1,477.5860	0.0513	0.0000	1,478.8675
Worker	0.5516	0.3119	3.7554	0.0153	2.0721	0.0115	2.0836	0.5511	0.0105	0.5616	0.0000	1,387.1900	1,387.1900	0.0216	0.0000	1,387.7291
Total	0.6764	4.5862	4.9376	0.0307	2.4721	0.0164	2.4885	0.6667	0.0152	0.6820	0.0000	2,864.7760	2,864.7760	0.0728	0.0000	2,866.5965

3.7 Building Construction - 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	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724
Total	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724

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3.7 Building Construction - 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	0.1120	3.8666	1.0666	0.0141	0.3663	4.4000e-003	0.3707	0.1059	4.2000e-003	0.1101	0.0000	1,346.8381	1,346.8381	0.0459	0.0000	1,347.9848
Worker	0.4756	0.2627	3.2260	0.0136	1.8974	9.7300e-003	1.9072	0.5046	8.9500e-003	0.5136	0.0000	1,230.3164	1,230.3164	0.0181	0.0000	1,230.7689
Total	0.5876	4.1293	4.2926	0.0276	2.2638	0.0141	2.2779	0.6105	0.0132	0.6237	0.0000	2,577.1544	2,577.1544	0.0640	0.0000	2,578.7537

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	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721
Total	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721

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3.7 Building Construction - 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	0.1120	3.8666	1.0666	0.0141	0.3663	4.4000e-003	0.3707	0.1059	4.2000e-003	0.1101	0.0000	1,346.8381	1,346.8381	0.0459	0.0000	1,347.9848
Worker	0.4756	0.2627	3.2260	0.0136	1.8974	9.7300e-003	1.9072	0.5046	8.9500e-003	0.5136	0.0000	1,230.3164	1,230.3164	0.0181	0.0000	1,230.7689
Total	0.5876	4.1293	4.2926	0.0276	2.2638	0.0141	2.2779	0.6105	0.0132	0.6237	0.0000	2,577.1544	2,577.1544	0.0640	0.0000	2,578.7537

3.8 Architectural Coating - 2023

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					
Archit. Coating	12.6236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0659	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633
Total	12.6895	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823
Total	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823

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					
Archit. Coating	12.6236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632
Total	12.6338	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823
Total	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823

3.8 Architectural Coating - 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					
Archit. Coating	3.5229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.5402	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288
Total	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288

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					
Archit. Coating	3.5229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.5257	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288
Total	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Unmitigated	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,544.40	1,678.82	1421.42	3,570,732	3,570,732
Apartments Low Rise	1,890.00	2,054.50	1739.50	4,369,777	4,369,777
Apartments Mid Rise	1,375.50	1,319.50	1211.00	3,104,112	3,104,112
Apartments Mid Rise	1,858.89	1,783.21	1636.58	4,194,986	4,194,986
Apartments Mid Rise	1,206.51	1,157.39	1062.22	2,722,750	2,722,750
City Park	56.70	682.50	502.20	447,770	447,770
City Park	5.16	62.11	45.70	40,747	40,747
Convenience Market (24 Hour)	0.00	0.00	0.00		
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Single Family Housing	1,893.34	1,970.06	1715.24	4,339,422	4,339,422
Unenclosed Parking Structure	202.00	202.00	202.00	153,839	153,839
Total	10,954.90	11,933.49	10,178.46	24,683,392	24,683,392

4.3 Trip Type Information

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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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Unenclosed Parking Structure	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Apartments Mid Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
City Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Convenience Market (24 Hour)	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Quality Restaurant	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Regional Shopping Center	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Single Family Housing	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Unenclosed Parking Structure	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,165.6874	1,165.6874	0.1888	0.0229	1,177.2298
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,179.4655	1,179.4655	0.1911	0.0232	1,191.1443
NaturalGas Mitigated	0.0490	0.4285	0.2475	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.3547	485.3547	9.3000e-003	8.9000e-003	488.2389
NaturalGas Unmitigated	0.0490	0.4285	0.2475	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.3547	485.3547	9.3000e-003	8.9000e-003	488.2389

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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					
Apartments Low Rise	1.19977e+006	6.4700e-003	0.0553	0.0235	3.5000e-004		4.4700e-003	4.4700e-003		4.4700e-003	4.4700e-003	0.0000	64.0242	64.0242	1.2300e-003	1.1700e-003	64.4047
Apartments Low Rise	980382	5.2900e-003	0.0452	0.0192	2.9000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	52.3169	52.3169	1.0000e-003	9.6000e-004	52.6278
Apartments Mid Rise	1.05809e+006	5.7100e-003	0.0488	0.0208	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4638	56.4638	1.0800e-003	1.0400e-003	56.7993
Apartments Mid Rise	686753	3.7000e-003	0.0316	0.0135	2.0000e-004		2.5600e-003	2.5600e-003		2.5600e-003	2.5600e-003	0.0000	36.6478	36.6478	7.0000e-004	6.7000e-004	36.8655
Apartments Mid Rise	782943	4.2200e-003	0.0361	0.0154	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	41.7808	41.7808	8.0000e-004	7.7000e-004	42.0291
City Park	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
Convenience Market (24 Hour)	7950	4.0000e-005	3.9000e-004	3.3000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4242	0.4242	1.0000e-005	1.0000e-005	0.4268
Quality Restaurant	1.585e+006	0.0171	0.1554	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.1633	169.1633	3.2400e-003	3.1000e-003	170.1685
Regional Shopping Center	15300	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6329	1.6329	3.0000e-005	3.0000e-005	1.6426
Single Family Housing	1.17872e+006	6.3600e-003	0.0543	0.0231	3.5000e-004		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	62.9007	62.9007	1.2100e-003	1.1500e-003	63.2745
Unenclosed Parking Structure	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		0.0491	0.4285	0.2475	2.6700e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.3547	485.3547	9.3000e-003	8.9000e-003	488.2389

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas 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					
Apartments Low Rise	1.19977e+006	6.4700e-003	0.0553	0.0235	3.5000e-004		4.4700e-003	4.4700e-003		4.4700e-003	4.4700e-003	0.0000	64.0242	64.0242	1.2300e-003	1.1700e-003	64.4047
Apartments Low Rise	980382	5.2900e-003	0.0452	0.0192	2.9000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	52.3169	52.3169	1.0000e-003	9.6000e-004	52.6278
Apartments Mid Rise	1.05809e+006	5.7100e-003	0.0488	0.0208	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4638	56.4638	1.0800e-003	1.0400e-003	56.7993
Apartments Mid Rise	686753	3.7000e-003	0.0316	0.0135	2.0000e-004		2.5600e-003	2.5600e-003		2.5600e-003	2.5600e-003	0.0000	36.6478	36.6478	7.0000e-004	6.7000e-004	36.8655
Apartments Mid Rise	782943	4.2200e-003	0.0361	0.0154	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	41.7808	41.7808	8.0000e-004	7.7000e-004	42.0291
City Park	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
Convenience Market (24 Hour)	7950	4.0000e-005	3.9000e-004	3.3000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4242	0.4242	1.0000e-005	1.0000e-005	0.4268
Quality Restaurant	1.585e+006	0.0171	0.1554	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.1633	169.1633	3.2400e-003	3.1000e-003	170.1685
Regional Shopping Center	15300	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6329	1.6329	3.0000e-005	3.0000e-005	1.6426
Single Family Housing	1.17872e+006	6.3600e-003	0.0543	0.0231	3.5000e-004		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	62.9007	62.9007	1.2100e-003	1.1500e-003	63.2745
Unenclosed Parking Structure	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		0.0491	0.4285	0.2475	2.6700e-003		0.0339	0.0339		0.0339	0.0339	0.0000	485.3547	485.3547	9.3000e-003	8.9000e-003	488.2389

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.01328e+006	93.6236	0.0152	1.8400e-003	94.5507
Apartments Low Rise	1.24003e+006	114.5744	0.0186	2.2500e-003	115.7088
Apartments Mid Rise	2.05475e+006	189.8521	0.0308	3.7300e-003	191.7319
Apartments Mid Rise	2.34255e+006	216.4437	0.0351	4.2500e-003	218.5869
Apartments Mid Rise	3.16578e+006	292.5082	0.0474	5.7400e-003	295.4046
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	65350	6.0381	9.8000e-004	1.2000e-004	6.0979
Quality Restaurant	318400	58.8383	9.5300e-003	1.1600e-003	59.4209
Regional Shopping Center	118600	21.9165	3.5500e-003	4.3000e-004	22.1335
Single Family Housing	1.96389e+006	181.4573	0.0294	3.5600e-003	183.2541
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,179.4655	0.1911	0.0232	1,191.1443

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.01328e+006	93.6236	0.0152	1.8400e-003	94.5507
Apartments Low Rise	1.24003e+006	114.5744	0.0186	2.2500e-003	115.7088
Apartments Mid Rise	2.02216e+006	186.8408	0.0303	3.6700e-003	188.6909
Apartments Mid Rise	2.30539e+006	213.0107	0.0345	4.1800e-003	215.1199
Apartments Mid Rise	3.11557e+006	287.8687	0.0466	5.6500e-003	290.7192
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	65350	6.0381	9.8000e-004	1.2000e-004	6.0979
Quality Restaurant	303820	56.1440	9.1000e-003	1.1000e-003	56.6999
Regional Shopping Center	118600	21.9165	3.5500e-003	4.3000e-004	22.1335
Single Family Housing	1.96389e+006	181.4573	0.0294	3.5600e-003	183.2541
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,165.6874	0.1889	0.0229	1,177.2298

6.0 Area Detail

6.1 Mitigation Measures Area

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Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	6.6934	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Unmitigated	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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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	1.6146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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	0.1443					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	6.6934	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

7.0 Water Detail

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	119.6651	3.6849	0.0883	238.1125
Unmitigated	142.6839	4.6050	0.1103	290.6747

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	41.438 / 26.1239	42.3118	1.3550	0.0325	85.8580
Apartments Mid Rise	73.624 / 46.4152	75.1767	2.4074	0.0577	152.5464
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.226996	0.3761	0.0121	2.9000e-004	0.7653
Quality Restaurant	6.07067 / 0.38749	5.0863	0.1983	4.7300e-003	11.4549
Regional Shopping Center	1.48145 / 0.907986	1.5043	0.0484	1.1600e-003	3.0610
Single Family Housing	17.8522 / 11.2546	18.2287	0.5838	0.0140	36.9891
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		142.6838	4.6050	0.1103	290.6747

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	33.1504 / 26.1239	35.5391	1.0843	0.0260	70.3928
Apartments Mid Rise	58.8992 / 46.4152	63.1434	1.9264	0.0462	125.0689
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.29629 / 0.226996	0.3155	9.6900e-003	2.3000e-004	0.6270
Quality Restaurant	4.85654 / 0.38749	4.0941	0.1587	3.7900e-003	9.1892
Regional Shopping Center	1.18516 / 0.907986	1.2622	0.0388	9.3000e-004	2.5081
Single Family Housing	14.2818 / 11.2546	15.3109	0.4671	0.0112	30.3264
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		119.6651	3.6849	0.0883	238.1125

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	467.7257	27.6418	0.0000	1,158,770 6
Unmitigated	935.4514	55.2836	0.0000	2,317,541 2

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	2522	511.9432	30.2550	0.0000	1,268.3176
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		935.4514	55.2836	0.0000	2,317.5412

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	710	144.1236	8.5175	0.0000	357.0601
Apartments Mid Rise	1261	255.9716	15.1275	0.0000	634.1588
City Park	1.405	0.2852	0.0169	0.0000	0.7066
Convenience Market (24 Hour)	7.515	1.5255	0.0902	0.0000	3.7793
Quality Restaurant	9.125	1.8523	0.1095	0.0000	4.5890
Regional Shopping Center	9.125	1.8523	0.1095	0.0000	4.5890
Single Family Housing	306	62.1152	3.6709	0.0000	153.8879
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		467.7257	27.6418	0.0000	1,158.7706

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Point Molate - Residential Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

**Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	100.00	Space	0.00	40,000.00	0
City Park	30.00	Acre	30.00	1,306,800.00	0
City Park	2.73	Acre	2.73	118,918.80	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Apartments Low Rise	286.00	Dwelling Unit	8.97	286,000.00	818
Apartments Low Rise	350.00	Dwelling Unit	10.98	350,000.00	1001
Apartments Mid Rise	350.00	Dwelling Unit	4.62	350,000.00	1001
Apartments Mid Rise	473.00	Dwelling Unit	6.24	473,000.00	1353
Apartments Mid Rise	307.00	Dwelling Unit	4.05	307,000.00	878
Single Family Housing	274.00	Dwelling Unit	44.65	493,200.00	784
Convenience Market (24 Hour)	5.00	1000sqft	0.00	5,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year		2024	
Utility Company	Pacific Gas & Electric Company				

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CO2 Intensity (lb/MW hr)	203.7	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project operational year = 2024. Updated electricity emission factors to incorporate RPS for 2024.

Land Use - CalEEMod acreage scaled to match project acreage of 80 acres for Residential , retail and restaurant.

Construction Phase - Construction duration is from 2/1/2021 to 11/30/2028 based on Suncal schedule. Total construction days match inputs provided by AES. Exact start and end dates are defined by CalEEMod and won't exactly match AES/SunCal inputs

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment - Construction equipment updated to match inputs provided by developer/AES.

Off-road Equipment -

Off-road Equipment - Construction equipment updated to match inputs provided by developer/AES.

Off-road Equipment -

Trips and VMT - CalEEMod default trip rates

Demolition - Input provided by AES/developer.

Grading - Total soil quantity exported is 355,000 cu yd. Grading area for bay trail development is 2.73 acres. Grading area for project is 90 acres.

Vehicle Emission Factors - EMFAC 2017 Emission Factors. See Air Quality Appendix Table A12 for EMFAC2017 inputs.

Road Dust - Updated silt loading factor is specific to Contra Costa county. See Air Quality Appendix Table EF2 for details.

Woodstoves - 600 Natural Gas fireplaces to be installed with the project.

Consumer Products - Consumer Product emission factors are updated to reflect statewide 2017 factors. See Air Quality Appendix Table A13 for further details.

Landscape Equipment - Total landscaping days set to zero

Energy Use - See Air Quality Appendix Table A14 for details on updated energy intensity values.

Solid Waste - See Air Quality Appendix Table A16 for details on updated solid waste generation rates.

Area Mitigation - No mitigation

Energy Mitigation - No mitigation measure

Water Mitigation - No mitigation measure

Waste Mitigation - No mitigation measure

Stationary Sources - Emergency Generators and Fire Pumps - Emergency generators evaluated outside of CalEEMod.

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Table Name	Column Name	Default Value	New Value
tblApplianceMitigation	PercentImprovement	30.00	0.00
tblApplianceMitigation	PercentImprovement	30.00	0.00
tblApplianceMitigation	PercentImprovement	30.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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	220.00	110.00
tblConstructionPhase	NumDays	3,100.00	1,550.00
tblConstructionPhase	NumDays	200.00	78.00
tblConstructionPhase	NumDays	310.00	261.00
tblConstructionPhase	NumDays	310.00	262.00

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tblConstructionPhase	NumDays	220.00	125.00
tblConstructionPhase	NumDays	120.00	89.00
tblConsumerProducts	ROG_EF	2.14E-05	1.55E-05
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	741.44	698.33
tblEnergyUse	LightingElect	4.88	5.88
tblEnergyUse	LightingElect	5.34	5.61
tblEnergyUse	LightingElect	4.88	5.12
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	1.75	1.14
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,054.10	2,848.06
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	NT24NG	2,615.00	1,662.07
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	128.02	128.00
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	T24E	233.06	1,429.93
tblEnergyUse	T24E	426.45	1,033.60
tblEnergyUse	T24E	2.24	2.90
tblEnergyUse	T24E	2.67	2.90
tblEnergyUse	T24E	2.24	2.45
tblEnergyUse	T24E	217.68	2,827.49
tblEnergyUse	T24NG	17,734.50	12,676.09
tblEnergyUse	T24NG	6,115.43	4,968.88

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tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02

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tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12

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tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblGrading	AcresOfGrading	1,696.50	90.00
tblGrading	AcresOfGrading	622.25	2.73
tblGrading	MaterialExported	0.00	344,550.00
tblGrading	MaterialExported	0.00	10,450.00
tblLandUse	LotAcreage	0.90	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	17.88	8.97
tblLandUse	LotAcreage	21.88	10.98
tblLandUse	LotAcreage	8.08	4.05
tblLandUse	LotAcreage	9.21	4.62

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tblLandUse	LotAcreage	12.45	6.24
tblLandUse	LotAcreage	88.96	44.65
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblOffRoadEquipment	HorsePower	402.00	367.00
tblOffRoadEquipment	LoadFactor	0.38	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	641.35	203.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblRoadDust	RoadSiltLoading	0.1	0.047
tblSolidWaste	SolidWasteGenerationRate	292.56	1,420.00
tblSolidWaste	SolidWasteGenerationRate	519.80	2,522.00
tblSolidWaste	SolidWasteGenerationRate	21.00	18.25
tblSolidWaste	SolidWasteGenerationRate	329.28	612.00
tblVehicleEF	HHD	0.41	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.58	6.28

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tblVehicleEF	HHD	0.84	0.40
tblVehicleEF	HHD	2.87	5.3000e-003
tblVehicleEF	HHD	4,335.05	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.83	5.34
tblVehicleEF	HHD	1.90	2.66
tblVehicleEF	HHD	19.75	2.36
tblVehicleEF	HHD	7.9210e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	7.5790e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.41	0.42
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01

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tblVehicleEF	HHD	1.3500e-004	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.48	0.49
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.39	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.15	6.28
tblVehicleEF	HHD	0.85	0.40
tblVehicleEF	HHD	2.61	5.3000e-003
tblVehicleEF	HHD	4,592.60	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	14.28	5.34
tblVehicleEF	HHD	1.83	2.66
tblVehicleEF	HHD	19.74	2.36
tblVehicleEF	HHD	6.6780e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	6.3890e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03

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tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.39	0.42
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3100e-004	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.45	0.49
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.45	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.17	6.28
tblVehicleEF	HHD	0.83	0.40
tblVehicleEF	HHD	3.11	5.3000e-003
tblVehicleEF	HHD	3,979.39	1,039.23

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tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.22	5.34
tblVehicleEF	HHD	1.93	2.66
tblVehicleEF	HHD	19.77	2.36
tblVehicleEF	HHD	9.6380e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	9.2210e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004

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tblVehicleEF	HHD	0.51	0.49
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	LDA	3.2820e-003	1.8000e-003
tblVehicleEF	LDA	4.5120e-003	0.05
tblVehicleEF	LDA	0.48	0.52
tblVehicleEF	LDA	1.04	2.15
tblVehicleEF	LDA	229.87	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.2620e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.3010e-003	2.4000e-003
tblVehicleEF	LDA	5.4600e-004	5.0000e-004

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tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	3.7280e-003	1.8000e-003
tblVehicleEF	LDA	3.6390e-003	0.05
tblVehicleEF	LDA	0.58	0.52
tblVehicleEF	LDA	0.80	2.15
tblVehicleEF	LDA	251.31	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	9.3650e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.21
tblVehicleEF	LDA	2.5170e-003	2.4000e-003

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tblVehicleEF	LDA	5.4200e-004	5.0000e-004
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.23
tblVehicleEF	LDA	3.1830e-003	1.8000e-003
tblVehicleEF	LDA	5.1540e-003	0.05
tblVehicleEF	LDA	0.47	0.52
tblVehicleEF	LDA	1.24	2.15
tblVehicleEF	LDA	226.93	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	8.0170e-003	6.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21

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tblVehicleEF	LDA	2.2720e-003	2.4000e-003
tblVehicleEF	LDA	5.4900e-004	5.0000e-004
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDT1	6.8390e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.88	0.87
tblVehicleEF	LDT1	2.31	2.34
tblVehicleEF	LDT1	287.67	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.13	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08

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tblVehicleEF	LDT1	0.15	0.32
tblVehicleEF	LDT1	2.8860e-003	2.8000e-003
tblVehicleEF	LDT1	7.0800e-004	6.0000e-004
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.16	0.35
tblVehicleEF	LDT1	7.6930e-003	3.8000e-003
tblVehicleEF	LDT1	8.8990e-003	0.07
tblVehicleEF	LDT1	1.05	0.87
tblVehicleEF	LDT1	1.76	2.34
tblVehicleEF	LDT1	313.61	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.11	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.02	0.02

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tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.12	0.32
tblVehicleEF	LDT1	3.1480e-003	2.8000e-003
tblVehicleEF	LDT1	6.9900e-004	6.0000e-004
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.13	0.35
tblVehicleEF	LDT1	6.6770e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.87	0.87
tblVehicleEF	LDT1	2.76	2.34
tblVehicleEF	LDT1	284.11	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.10	0.07
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08

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tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8500e-003	2.8000e-003
tblVehicleEF	LDT1	7.1600e-004	6.0000e-004
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT2	4.4150e-003	2.9000e-003
tblVehicleEF	LDT2	5.8360e-003	0.06
tblVehicleEF	LDT2	0.62	0.70
tblVehicleEF	LDT2	1.34	2.74
tblVehicleEF	LDT2	323.78	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12

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tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.2420e-003	3.0000e-003
tblVehicleEF	LDT2	7.6900e-004	7.0000e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.0080e-003	2.9000e-003
tblVehicleEF	LDT2	4.7080e-003	0.06
tblVehicleEF	LDT2	0.75	0.70
tblVehicleEF	LDT2	1.03	2.74
tblVehicleEF	LDT2	353.38	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.09	0.06

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tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	3.5390e-003	3.0000e-003
tblVehicleEF	LDT2	7.6400e-004	7.0000e-004
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.32
tblVehicleEF	LDT2	4.2820e-003	2.9000e-003
tblVehicleEF	LDT2	6.6640e-003	0.06
tblVehicleEF	LDT2	0.60	0.70
tblVehicleEF	LDT2	1.58	2.74
tblVehicleEF	LDT2	319.73	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003

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tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.2010e-003	3.0000e-003
tblVehicleEF	LDT2	7.7400e-004	7.0000e-004
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.99	0.77
tblVehicleEF	LHD1	2.29	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.39	0.94
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004

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tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003

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tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.01	0.77
tblVehicleEF	LHD1	2.10	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.33	0.94
tblVehicleEF	LHD1	0.87	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20

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tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.3800e-004	1.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.16	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.24	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.77
tblVehicleEF	LHD1	2.47	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.42	0.94
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01

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tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4500e-004	1.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.0300e-003	6.9000e-003
tblVehicleEF	LHD2	5.6740e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13

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tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	1.02	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.77	0.98
tblVehicleEF	LHD2	0.40	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003

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tblVehicleEF	LHD2	2.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.1180e-003	6.9000e-003
tblVehicleEF	LHD2	5.3450e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	0.94	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.74	0.98
tblVehicleEF	LHD2	0.38	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04

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tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4200e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	6.9590e-003	6.9000e-003
tblVehicleEF	LHD2	5.9550e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.64
tblVehicleEF	LHD2	1.09	0.55
tblVehicleEF	LHD2	14.17	14.31

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tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.78	0.98
tblVehicleEF	LHD2	0.42	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03

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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.16	0.26
tblVehicleEF	MCY	19.70	20.00
tblVehicleEF	MCY	10.22	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.27	2.29
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	2.1230e-003	2.1000e-003
tblVehicleEF	MCY	6.8900e-004	6.0000e-004

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tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.81	2.82
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.43	2.15
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.13	0.26
tblVehicleEF	MCY	18.98	20.00
tblVehicleEF	MCY	8.86	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.02	1.16
tblVehicleEF	MCY	0.29	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.18	2.29
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.83	1.98
tblVehicleEF	MCY	2.1090e-003	2.1000e-003

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tblVehicleEF	MCY	6.5400e-004	6.0000e-004
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.70	2.82
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.99	2.15
tblVehicleEF	MCY	0.47	0.34
tblVehicleEF	MCY	0.19	0.26
tblVehicleEF	MCY	21.47	20.00
tblVehicleEF	MCY	11.78	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.25	1.16
tblVehicleEF	MCY	0.35	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.37	2.29
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.62	1.98

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tblVehicleEF	MCY	2.1550e-003	2.1000e-003
tblVehicleEF	MCY	7.2600e-004	6.0000e-004
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.94	2.82
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.85	2.15
tblVehicleEF	MDV	8.6020e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.97	0.82
tblVehicleEF	MDV	2.71	3.10
tblVehicleEF	MDV	443.89	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.24	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.06

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tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4430e-003	3.8000e-003
tblVehicleEF	MDV	1.0620e-003	8.0000e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	9.7400e-003	3.8000e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.18	0.82
tblVehicleEF	MDV	2.08	3.10
tblVehicleEF	MDV	483.31	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.21	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.02	0.02

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tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.38
tblVehicleEF	MDV	4.8400e-003	3.8000e-003
tblVehicleEF	MDV	1.0500e-003	8.0000e-004
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.04	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.42
tblVehicleEF	MDV	8.3570e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.96	0.82
tblVehicleEF	MDV	3.22	3.10
tblVehicleEF	MDV	438.49	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08

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tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.23	0.38
tblVehicleEF	MDV	4.3890e-003	3.8000e-003
tblVehicleEF	MDV	1.0710e-003	8.0000e-004
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.25	0.42
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.46	0.85
tblVehicleEF	MH	4.96	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.34	1.52
tblVehicleEF	MH	0.78	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004

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tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.6600e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.32	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.52	0.85
tblVehicleEF	MH	4.45	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.26	1.52
tblVehicleEF	MH	0.72	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06

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tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.27	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5800e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.41	0.85
tblVehicleEF	MH	5.39	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.38	1.52
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01

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tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7400e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.4400e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.37	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.47	1.19
tblVehicleEF	MHD	134.03	84.01

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tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.38	0.52
tblVehicleEF	MHD	1.11	1.47
tblVehicleEF	MHD	10.23	1.66
tblVehicleEF	MHD	1.4100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.3500e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	1.2910e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0200e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	4.6600e-004	2.0000e-004

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tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.01	4.0000e-003
tblVehicleEF	MHD	4.5430e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.43
tblVehicleEF	MHD	0.36	0.27
tblVehicleEF	MHD	4.98	1.19
tblVehicleEF	MHD	142.13	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.40	0.52
tblVehicleEF	MHD	1.07	1.47
tblVehicleEF	MHD	10.17	1.66
tblVehicleEF	MHD	1.1900e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.1400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1250e-003	2.0000e-004

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tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	1.3670e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9400e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.3600e-003	2.1000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.94	1.19
tblVehicleEF	MHD	123.22	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.37	0.52
tblVehicleEF	MHD	1.13	1.47
tblVehicleEF	MHD	10.28	1.66
tblVehicleEF	MHD	1.7100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13

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tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.6400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	1.1890e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.3020e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.53	0.98
tblVehicleEF	OBUS	5.50	2.88

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tblVehicleEF	OBUS	71.68	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.14	0.23
tblVehicleEF	OBUS	0.75	1.13
tblVehicleEF	OBUS	2.17	0.68
tblVehicleEF	OBUS	1.3000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.34	0.14
tblVehicleEF	OBUS	6.9600e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.37	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.5680e-003	9.0000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	4.94	2.88
tblVehicleEF	OBUS	74.94	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.15	0.23
tblVehicleEF	OBUS	0.71	1.13
tblVehicleEF	OBUS	2.10	0.68
tblVehicleEF	OBUS	1.1000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.32	0.14
tblVehicleEF	OBUS	7.2700e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7700e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.35	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.0920e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.52	0.98
tblVehicleEF	OBUS	5.95	2.88
tblVehicleEF	OBUS	67.19	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.13	0.23
tblVehicleEF	OBUS	0.77	1.13
tblVehicleEF	OBUS	2.23	0.68
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.36	0.14
tblVehicleEF	OBUS	6.5300e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9500e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1030e-003	2.6000e-003
tblVehicleEF	SBUS	0.06	1.3000e-003

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

tblVehicleEF	SBUS	2.09	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.33	0.19
tblVehicleEF	SBUS	1,440.18	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.22	2.23
tblVehicleEF	SBUS	4.78	2.75
tblVehicleEF	SBUS	19.18	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2700e-004	0.00

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tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	8.0000e-003
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1440e-003	2.6000e-003
tblVehicleEF	SBUS	0.05	1.3000e-003
tblVehicleEF	SBUS	1.93	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	0.91	0.19
tblVehicleEF	SBUS	1,522.68	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.64	2.23
tblVehicleEF	SBUS	4.59	2.75
tblVehicleEF	SBUS	19.17	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	9.5970e-003	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00

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tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.24	0.09
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.05	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2100e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.33	0.12
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.06	8.0000e-003
tblVehicleEF	SBUS	0.88	0.02
tblVehicleEF	SBUS	6.0730e-003	2.6000e-003
tblVehicleEF	SBUS	0.07	1.3000e-003
tblVehicleEF	SBUS	2.33	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.66	0.19
tblVehicleEF	SBUS	1,326.25	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	12.63	2.23

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tblVehicleEF	SBUS	4.86	2.75
tblVehicleEF	SBUS	19.19	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.3300e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	8.0000e-003

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tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.07	1.5000e-003
tblVehicleEF	UBUS	4.04	8.13
tblVehicleEF	UBUS	11.74	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.66	0.64
tblVehicleEF	UBUS	12.20	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.98	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7290e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004

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tblVehicleEF	UBUS	0.65	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	1.08	5.8000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.06	1.5000e-003
tblVehicleEF	UBUS	4.11	8.13
tblVehicleEF	UBUS	9.17	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.41	0.64
tblVehicleEF	UBUS	12.07	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.39	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.85	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.6840e-003	0.00

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tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.66	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.93	5.8000e-003
tblVehicleEF	UBUS	0.23	1.10
tblVehicleEF	UBUS	0.08	1.5000e-003
tblVehicleEF	UBUS	4.00	8.13
tblVehicleEF	UBUS	14.08	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.77	0.64
tblVehicleEF	UBUS	12.31	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.03	1.0000e-004

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tblVehicleEF	UBUS	1.10	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7700e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.64	1.12
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.20	5.8000e-003
tblVehicleTrips	CC_TTP	0.00	80.10
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	0.90
tblVehicleTrips	DV_TP	18.00	40.00
tblVehicleTrips	DV_TP	35.00	40.00
tblVehicleTrips	DV_TP	0.00	15.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	0.00	61.00
tblVehicleTrips	PR_TP	38.00	60.00
tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	PR_TP	0.00	24.00
tblVehicleTrips	ST_TR	7.16	5.87
tblVehicleTrips	ST_TR	6.39	3.77
tblVehicleTrips	ST_TR	863.10	0.00
tblVehicleTrips	ST_TR	94.36	24.19
tblVehicleTrips	ST_TR	49.97	26.98
tblVehicleTrips	ST_TR	9.91	7.19

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tblVehicleTrips	ST_TR	0.00	2.02
tblVehicleTrips	SU_TR	6.07	4.97
tblVehicleTrips	SU_TR	5.86	3.46
tblVehicleTrips	SU_TR	758.45	0.00
tblVehicleTrips	SU_TR	72.16	18.50
tblVehicleTrips	SU_TR	25.24	13.63
tblVehicleTrips	SU_TR	8.62	6.26
tblVehicleTrips	SU_TR	0.00	2.02
tblVehicleTrips	WD_TR	6.59	5.40
tblVehicleTrips	WD_TR	6.65	3.93
tblVehicleTrips	WD_TR	737.99	0.00
tblVehicleTrips	WD_TR	89.95	23.06
tblVehicleTrips	WD_TR	42.70	23.06
tblVehicleTrips	WD_TR	9.52	6.91
tblVehicleTrips	WD_TR	0.00	2.02
tblWater	OutdoorWaterUseRate	38,997,184.57	0.00
tblWoodstoves	NumberCatalytic	12.72	0.00
tblWoodstoves	NumberCatalytic	22.60	0.00
tblWoodstoves	NumberCatalytic	10.96	0.00
tblWoodstoves	NumberNoncatalytic	12.72	0.00
tblWoodstoves	NumberNoncatalytic	22.60	0.00
tblWoodstoves	NumberNoncatalytic	10.96	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

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tblWoodstoves	WoodstoveWoodMass	956.80	0.00
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2.0 Emissions Summary

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					
2021	1.2161	16.2072	8.5517	0.0283	1.8677	0.5252	2.3929	0.8817	0.4842	1.3658	0.0000	2,597.7828	2,597.7828	0.4832	0.0000	2,609.8618
2022	0.7771	8.8607	6.3025	0.0185	1.1548	0.3089	1.4637	0.4889	0.2845	0.7734	0.0000	1,665.0865	1,665.0865	0.3862	0.0000	1,674.7403
2023	13.8535	8.0501	10.0238	0.0409	2.7108	0.1637	2.8746	0.7573	0.1547	0.9120	0.0000	3,759.6173	3,759.6173	0.2094	0.0000	3,764.8524
2024	4.5389	6.7742	8.3545	0.0372	2.5196	0.1044	2.6240	0.6794	0.0984	0.7778	0.0000	3,430.0241	3,430.0241	0.1582	0.0000	3,433.9797
2025	0.9266	6.3971	7.6609	0.0356	2.4721	0.0864	2.5586	0.6667	0.0811	0.7479	0.0000	3,290.3063	3,290.3063	0.1511	0.0000	3,294.0837
2026	0.8897	6.3038	7.3274	0.0349	2.4721	0.0860	2.5581	0.6667	0.0807	0.7474	0.0000	3,225.3222	3,225.3222	0.1474	0.0000	3,229.0060
2027	0.8548	6.2134	7.0366	0.0343	2.4721	0.0852	2.5573	0.6667	0.0800	0.7467	0.0000	3,167.4309	3,167.4309	0.1440	0.0000	3,171.0301
2028	0.7510	5.6194	6.2147	0.0309	2.2638	0.0772	2.3409	0.6105	0.0725	0.6830	0.0000	2,854.2982	2,854.2982	0.1291	0.0000	2,857.5262
Maximum	13.8535	16.2072	10.0238	0.0409	2.7108	0.5252	2.8746	0.8817	0.4842	1.3658	0.0000	3,759.6173	3,759.6173	0.4832	0.0000	3,764.8524

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2.1 Overall Construction

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					
2021	0.4376	6.6648	8.7730	0.0283	1.0488	0.0969	1.1457	0.4528	0.0913	0.5441	0.0000	2,597.781 2	2,597.781 2	0.4832	0.0000	2,609.860 2
2022	0.3649	3.8941	7.0339	0.0185	0.7387	0.1010	0.8398	0.2765	0.0944	0.3709	0.0000	1,665.085 2	1,665.085 2	0.3862	0.0000	1,674.738 9
2023	13.5888	5.5257	10.3178	0.0409	2.6563	0.0329	2.6892	0.7278	0.0312	0.7590	0.0000	3,759.616 7	3,759.616 7	0.2094	0.0000	3,764.851 7
2024	4.3745	5.2011	8.5261	0.0372	2.5196	0.0239	2.5436	0.6794	0.0227	0.7021	0.0000	3,430.023 7	3,430.023 7	0.1582	0.0000	3,433.979 3
2025	0.7910	5.0614	7.8404	0.0356	2.4721	0.0229	2.4950	0.6667	0.0217	0.6884	0.0000	3,290.306 0	3,290.306 0	0.1511	0.0000	3,294.083 4
2026	0.7540	4.9682	7.5069	0.0349	2.4721	0.0224	2.4946	0.6667	0.0212	0.6880	0.0000	3,225.321 9	3,225.321 9	0.1474	0.0000	3,229.005 6
2027	0.7192	4.8778	7.2161	0.0343	2.4721	0.0217	2.4938	0.6667	0.0206	0.6873	0.0000	3,167.430 5	3,167.430 5	0.1440	0.0000	3,171.029 7
2028	0.6268	4.3963	6.3791	0.0309	2.2638	0.0190	2.2828	0.6105	0.0180	0.6286	0.0000	2,854.297 9	2,854.297 9	0.1291	0.0000	2,857.525 8
Maximum	13.5888	6.6648	10.3178	0.0409	2.6563	0.1010	2.6892	0.7278	0.0944	0.7590	0.0000	3,759.616 7	3,759.616 7	0.4832	0.0000	3,764.851 7

	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	9.03	37.00	-3.45	0.00	7.19	76.28	12.32	12.38	75.97	24.96	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	2-1-2021	4-30-2021	3.6175	0.8996
2	5-1-2021	7-31-2021	5.8880	2.3394

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3	8-1-2021	10-31-2021	4.6736	2.2709
4	11-1-2021	1-31-2022	5.0925	2.4874
5	2-1-2022	4-30-2022	4.8333	2.2298
6	5-1-2022	7-31-2022	1.6509	0.6295
7	8-1-2022	10-31-2022	1.4097	0.3883
8	11-1-2022	1-31-2023	2.2788	1.1031
9	2-1-2023	4-30-2023	2.3358	1.6268
10	5-1-2023	7-31-2023	1.9818	1.5416
11	8-1-2023	10-31-2023	8.6904	8.0174
12	11-1-2023	1-31-2024	12.0841	11.3127
13	2-1-2024	4-30-2024	1.9981	1.5975
14	5-1-2024	7-31-2024	1.9090	1.5031
15	8-1-2024	10-31-2024	1.9199	1.5140
16	11-1-2024	1-31-2025	1.9168	1.5229
17	2-1-2025	4-30-2025	1.7975	1.4391
18	5-1-2025	7-31-2025	1.8380	1.4676
19	8-1-2025	10-31-2025	1.8482	1.4778
20	11-1-2025	1-31-2026	1.8568	1.4863
21	2-1-2026	4-30-2026	1.7649	1.4066
22	5-1-2026	7-31-2026	1.8055	1.4350
23	8-1-2026	10-31-2026	1.8151	1.4447
24	11-1-2026	1-31-2027	1.8230	1.4525
25	2-1-2027	4-30-2027	1.7336	1.3753
26	5-1-2027	7-31-2027	1.7742	1.4038
27	8-1-2027	10-31-2027	1.7833	1.4128
28	11-1-2027	1-31-2028	1.7912	1.4208
29	2-1-2028	4-30-2028	1.7249	1.3625

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30	5-1-2028	7-31-2028	1.7463	1.3759
31	8-1-2028	9-30-2028	1.1579	0.9123
		Highest	12.0841	11.3127

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	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	2,226.2760	2,226.2760	0.1453	0.0418	2,242.3496
Mobile	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Waste						0.0000	0.0000		0.0000	0.0000	935.4514	0.0000	935.4514	55.2836	0.0000	2,317.5412
Water						0.0000	0.0000		0.0000	0.0000	44.6810	98.0029	142.6839	4.6050	0.1103	290.6747
Total	11.2502	7.5561	31.2013	0.1000	5.2810	0.1874	5.4684	1.4999	0.1826	1.6826	980.1324	10,858.9927	11,839.1251	60.4085	0.1548	13,395.4630

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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	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	2,226.2760	2,226.2760	0.1453	0.0418	2,242.3496
Mobile	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Waste						0.0000	0.0000		0.0000	0.0000	935.4514	0.0000	935.4514	55.2836	0.0000	2,317.5412
Water						0.0000	0.0000		0.0000	0.0000	44.6810	86.9667	131.6477	4.6033	0.1101	279.5293
Total	11.2502	7.5561	31.2013	0.1000	5.2810	0.1874	5.4684	1.4999	0.1826	1.6826	980.1324	10,847.9566	11,828.0889	60.4067	0.1546	13,384.3176

	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	0.10	0.09	0.00	0.14	0.08

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2021	5/19/2021	5	78	
2	Site Preparation	Site Preparation	3/1/2021	7/1/2021	5	89	
3	Grading	Grading	4/1/2021	3/31/2022	5	261	
4	Paving	Paving	1/1/2022	6/24/2022	5	125	
5	Bay Trail Grading	Grading	3/1/2022	3/1/2023	5	262	
6	Building Construction	Building Construction	12/23/2022	11/30/2028	5	1550	
7	Architectural Coating	Architectural Coating	9/1/2023	2/1/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 4,574,880; Residential Outdoor: 1,524,960; Non-Residential Indoor: 67,500; Non-Residential Outdoor: 22,500; Striped Parking Area: 2,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	6	8.00	367	0.48

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Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Bay Trail Grading	Excavators	1	6.00	158	0.38
Bay Trail Grading	Graders	1	6.00	187	0.41
Bay Trail Grading	Off-Highway Trucks	1	8.00	367	0.48
Bay Trail Grading	Paving Equipment	1	8.00	132	0.36
Bay Trail Grading	Plate Compactors	1	8.00	8	0.43
Bay Trail Grading	Rubber Tired Dozers	1	6.00	247	0.40
Bay Trail Grading	Scrapers	2	8.00	367	0.48
Bay Trail Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	8	6.00	78	0.48

Trips and VMT

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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
Demolition	6	15.00	0.00	227.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	30.00	0.00	43,069.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Bay Trail Grading	9	23.00	0.00	1,306.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,002.00	466.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	400.00	0.00	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

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

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					0.0246	0.0000	0.0246	3.7300e-003	0.0000	3.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1234	1.2262	0.8410	1.5100e-003		0.0605	0.0605		0.0562	0.0562	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361
Total	0.1234	1.2262	0.8410	1.5100e-003	0.0246	0.0605	0.0851	3.7300e-003	0.0562	0.0599	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

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					0.0111	0.0000	0.0111	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.0781	0.9079	1.5100e-003		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360
Total	0.0180	0.0781	0.9079	1.5100e-003	0.0111	2.4000e-003	0.0135	1.6800e-003	2.4000e-003	4.0800e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

3.3 Site Preparation - 2021

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					0.8040	0.0000	0.8040	0.4419	0.0000	0.4419	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1730	1.8021	0.9414	1.6900e-003		0.0910	0.0910		0.0837	0.0837	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920
Total	0.1730	1.8021	0.9414	1.6900e-003	0.8040	0.0910	0.8949	0.4419	0.0837	0.5256	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

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					0.3618	0.0000	0.3618	0.1989	0.0000	0.1989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.0898	0.9287	1.6900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918
Total	0.0207	0.0898	0.9287	1.6900e-003	0.3618	2.7600e-003	0.3645	0.1989	2.7600e-003	0.2016	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

3.4 Grading - 2021

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					0.6604	0.0000	0.6604	0.3342	0.0000	0.3342	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7790	8.7873	5.8014	0.0121		0.3596	0.3596		0.3308	0.3308	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347
Total	0.7790	8.7873	5.8014	0.0121	0.6604	0.3596	1.0200	0.3342	0.3308	0.6650	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

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					0.2972	0.0000	0.2972	0.1504	0.0000	0.1504	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2582	2.1053	5.9685	0.0121		0.0776	0.0776		0.0727	0.0727	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334
Total	0.2582	2.1053	5.9685	0.0121	0.2972	0.0776	0.3748	0.1504	0.0727	0.2231	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

3.4 Grading - 2022

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					0.2599	0.0000	0.2599	0.1140	0.0000	0.1140	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2209	2.3878	1.7454	3.9300e-003		0.0970	0.0970		0.0892	0.0892	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322
Total	0.2209	2.3878	1.7454	3.9300e-003	0.2599	0.0970	0.3569	0.1140	0.0892	0.2033	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

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					0.1170	0.0000	0.1170	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0786	0.5995	1.9088	3.9300e-003		0.0220	0.0220		0.0207	0.0207	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318
Total	0.0786	0.5995	1.9088	3.9300e-003	0.1170	0.0220	0.1390	0.0513	0.0207	0.0720	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

3.5 Paving - 2022

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

3.6 Bay Trail Grading - 2022

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					0.4966	0.0000	0.4966	0.2721	0.0000	0.2721	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4053	4.1437	3.0396	7.4600e-003		0.1689	0.1689		0.1555	0.1555	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293
Total	0.4053	4.1437	3.0396	7.4600e-003	0.4966	0.1689	0.6655	0.2721	0.1555	0.4276	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

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					0.2235	0.0000	0.2235	0.1224	0.0000	0.1224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1395	1.0055	3.6043	7.4600e-003		0.0384	0.0384		0.0361	0.0361	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286
Total	0.1395	1.0055	3.6043	7.4600e-003	0.2235	0.0384	0.2619	0.1224	0.0361	0.1586	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

3.6 Bay Trail Grading - 2023

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					0.0991	0.0000	0.0991	0.0536	0.0000	0.0536	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.7283	0.5768	1.4700e-003		0.0293	0.0293		0.0270	0.0270	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717
Total	0.0740	0.7283	0.5768	1.4700e-003	0.0991	0.0293	0.1284	0.0536	0.0270	0.0806	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

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					0.0446	0.0000	0.0446	0.0241	0.0000	0.0241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.1874	0.7054	1.4700e-003		7.1300e-003	7.1300e-003		6.7200e-003	6.7200e-003	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716
Total	0.0269	0.1874	0.7054	1.4700e-003	0.0446	7.1300e-003	0.0518	0.0241	6.7200e-003	0.0309	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

3.7 Building Construction - 2022

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	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.2700e-003	0.1365	0.0344	3.7000e-004	9.1900e-003	2.8000e-004	9.4800e-003	2.6600e-003	2.7000e-004	2.9300e-003	0.0000	35.7965	35.7965	1.5900e-003	0.0000	35.8363
Worker	0.0173	0.0117	0.1264	4.3000e-004	0.0476	3.0000e-004	0.0479	0.0127	2.8000e-004	0.0130	0.0000	38.8111	38.8111	8.2000e-004	0.0000	38.8317
Total	0.0216	0.1481	0.1608	8.0000e-004	0.0568	5.8000e-004	0.0574	0.0153	5.5000e-004	0.0159	0.0000	74.6076	74.6076	2.4100e-003	0.0000	74.6679

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	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.2700e-003	0.1365	0.0344	3.7000e-004	9.1900e-003	2.8000e-004	9.4800e-003	2.6600e-003	2.7000e-004	2.9300e-003	0.0000	35.7965	35.7965	1.5900e-003	0.0000	35.8363
Worker	0.0173	0.0117	0.1264	4.3000e-004	0.0476	3.0000e-004	0.0479	0.0127	2.8000e-004	0.0130	0.0000	38.8111	38.8111	8.2000e-004	0.0000	38.8317
Total	0.0216	0.1481	0.1608	8.0000e-004	0.0568	5.8000e-004	0.0574	0.0153	5.5000e-004	0.0159	0.0000	74.6076	74.6076	2.4100e-003	0.0000	74.6679

3.7 Building Construction - 2023

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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3.7 Building Construction - 2023

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	0.1396	4.5017	1.3296	0.0158	0.3985	5.3700e-003	0.4038	0.1152	5.1400e-003	0.1203	0.0000	1,508.0032	1,508.0032	0.0567	0.0000	1,509.4213
Worker	0.6980	0.4536	5.0353	0.0179	2.0642	0.0128	2.0770	0.5490	0.0118	0.5608	0.0000	1,616.4807	1,616.4807	0.0319	0.0000	1,617.2777
Total	0.8375	4.9553	6.3649	0.0336	2.4626	0.0182	2.4808	0.6642	0.0170	0.6811	0.0000	3,124.4839	3,124.4839	0.0886	0.0000	3,126.6991

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	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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3.7 Building Construction - 2023

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	0.1396	4.5017	1.3296	0.0158	0.3985	5.3700e-003	0.4038	0.1152	5.1400e-003	0.1203	0.0000	1,508.0032	1,508.0032	0.0567	0.0000	1,509.4213
Worker	0.6980	0.4536	5.0353	0.0179	2.0642	0.0128	2.0770	0.5490	0.0118	0.5608	0.0000	1,616.4807	1,616.4807	0.0319	0.0000	1,617.2777
Total	0.8375	4.9553	6.3649	0.0336	2.4626	0.0182	2.4808	0.6642	0.0170	0.6811	0.0000	3,124.4839	3,124.4839	0.0886	0.0000	3,126.6991

3.7 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

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3.7 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	0.1358	4.4765	1.2848	0.0158	0.4015	5.3000e-003	0.4068	0.1161	5.0700e-003	0.1212	0.0000	1,509.6770	1,509.6770	0.0556	0.0000	1,511.0675
Worker	0.6581	0.4120	4.6922	0.0173	2.0800	0.0127	2.0927	0.5532	0.0117	0.5649	0.0000	1,563.4979	1,563.4979	0.0289	0.0000	1,564.2198
Total	0.7938	4.8885	5.9770	0.0330	2.4816	0.0180	2.4995	0.6693	0.0167	0.6860	0.0000	3,073.1749	3,073.1749	0.0845	0.0000	3,075.2872

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	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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3.7 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	0.1358	4.4765	1.2848	0.0158	0.4015	5.3000e-003	0.4068	0.1161	5.0700e-003	0.1212	0.0000	1,509.6770	1,509.6770	0.0556	0.0000	1,511.0675
Worker	0.6581	0.4120	4.6922	0.0173	2.0800	0.0127	2.0927	0.5532	0.0117	0.5649	0.0000	1,563.4979	1,563.4979	0.0289	0.0000	1,564.2198
Total	0.7938	4.8885	5.9770	0.0330	2.4816	0.0180	2.4995	0.6693	0.0167	0.6860	0.0000	3,073.1749	3,073.1749	0.0845	0.0000	3,075.2872

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1312	4.3973	1.2383	0.0156	0.4000	5.1700e-003	0.4052	0.1156	4.9400e-003	0.1206	0.0000	1,494.3974	1,494.3974	0.0539	0.0000	1,495.7457
Worker	0.6170	0.3725	4.3235	0.0165	2.0721	0.0124	2.0845	0.5511	0.0114	0.5625	0.0000	1,493.2540	1,493.2540	0.0260	0.0000	1,493.9045
Total	0.7482	4.7698	5.5618	0.0321	2.4721	0.0176	2.4897	0.6667	0.0164	0.6831	0.0000	2,987.6514	2,987.6514	0.0800	0.0000	2,989.6502

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1312	4.3973	1.2383	0.0156	0.4000	5.1700e-003	0.4052	0.1156	4.9400e-003	0.1206	0.0000	1,494.3974	1,494.3974	0.0539	0.0000	1,495.7457
Worker	0.6170	0.3725	4.3235	0.0165	2.0721	0.0124	2.0845	0.5511	0.0114	0.5625	0.0000	1,493.2540	1,493.2540	0.0260	0.0000	1,493.9045
Total	0.7482	4.7698	5.5618	0.0321	2.4721	0.0176	2.4897	0.6667	0.0164	0.6831	0.0000	2,987.6514	2,987.6514	0.0800	0.0000	2,989.6502

3.7 Building Construction - 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					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 Building Construction - 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	0.0000	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	0.1277	4.3363	1.2071	0.0155	0.4000	5.0400e-003	0.4051	0.1157	4.8100e-003	0.1205	0.0000	1,485.7378	1,485.7378	0.0526	0.0000	1,487.0517
Worker	0.5835	0.3403	4.0212	0.0159	2.0721	0.0121	2.0842	0.5511	0.0111	0.5622	0.0000	1,436.9296	1,436.9296	0.0237	0.0000	1,437.5208
Total	0.7112	4.6765	5.2284	0.0314	2.4721	0.0171	2.4892	0.6667	0.0159	0.6827	0.0000	2,922.6673	2,922.6673	0.0762	0.0000	2,924.5725

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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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	0.1277	4.3363	1.2071	0.0155	0.4000	5.0400e-003	0.4051	0.1157	4.8100e-003	0.1205	0.0000	1,485.7378	1,485.7378	0.0526	0.0000	1,487.0517
Worker	0.5835	0.3403	4.0212	0.0159	2.0721	0.0121	2.0842	0.5511	0.0111	0.5622	0.0000	1,436.9296	1,436.9296	0.0237	0.0000	1,437.5208
Total	0.7112	4.6765	5.2284	0.0314	2.4721	0.0171	2.4892	0.6667	0.0159	0.6827	0.0000	2,922.6673	2,922.6673	0.0762	0.0000	2,924.5725

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1247	4.2743	1.1822	0.0154	0.4000	4.9100e-003	0.4050	0.1157	4.6900e-003	0.1204	0.0000	1,477.5860	1,477.5860	0.0513	0.0000	1,478.8675
Worker	0.5516	0.3119	3.7554	0.0153	2.0721	0.0115	2.0836	0.5511	0.0105	0.5616	0.0000	1,387.1900	1,387.1900	0.0216	0.0000	1,387.7291
Total	0.6764	4.5862	4.9376	0.0307	2.4721	0.0164	2.4885	0.6667	0.0152	0.6820	0.0000	2,864.7760	2,864.7760	0.0728	0.0000	2,866.5965

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1247	4.2743	1.1822	0.0154	0.4000	4.9100e-003	0.4050	0.1157	4.6900e-003	0.1204	0.0000	1,477.5860	1,477.5860	0.0513	0.0000	1,478.8675
Worker	0.5516	0.3119	3.7554	0.0153	2.0721	0.0115	2.0836	0.5511	0.0105	0.5616	0.0000	1,387.1900	1,387.1900	0.0216	0.0000	1,387.7291
Total	0.6764	4.5862	4.9376	0.0307	2.4721	0.0164	2.4885	0.6667	0.0152	0.6820	0.0000	2,864.7760	2,864.7760	0.0728	0.0000	2,866.5965

3.7 Building Construction - 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	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724
Total	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724

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3.7 Building Construction - 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	0.1120	3.8666	1.0666	0.0141	0.3663	4.4000e-003	0.3707	0.1059	4.2000e-003	0.1101	0.0000	1,346.8381	1,346.8381	0.0459	0.0000	1,347.9848
Worker	0.4756	0.2627	3.2260	0.0136	1.8974	9.7300e-003	1.9072	0.5046	8.9500e-003	0.5136	0.0000	1,230.3164	1,230.3164	0.0181	0.0000	1,230.7689
Total	0.5876	4.1293	4.2926	0.0276	2.2638	0.0141	2.2779	0.6105	0.0132	0.6237	0.0000	2,577.1544	2,577.1544	0.0640	0.0000	2,578.7537

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	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721
Total	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721

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3.7 Building Construction - 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	0.1120	3.8666	1.0666	0.0141	0.3663	4.4000e-003	0.3707	0.1059	4.2000e-003	0.1101	0.0000	1,346.8381	1,346.8381	0.0459	0.0000	1,347.9848
Worker	0.4756	0.2627	3.2260	0.0136	1.8974	9.7300e-003	1.9072	0.5046	8.9500e-003	0.5136	0.0000	1,230.3164	1,230.3164	0.0181	0.0000	1,230.7689
Total	0.5876	4.1293	4.2926	0.0276	2.2638	0.0141	2.2779	0.6105	0.0132	0.6237	0.0000	2,577.1544	2,577.1544	0.0640	0.0000	2,578.7537

3.8 Architectural Coating - 2023

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					
Archit. Coating	12.6236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0659	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633
Total	12.6895	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823
Total	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823

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					
Archit. Coating	12.6236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632
Total	12.6338	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823
Total	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823

3.8 Architectural Coating - 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					
Archit. Coating	3.5229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.5402	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288
Total	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288

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					
Archit. Coating	3.5229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.5257	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288
Total	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Unmitigated	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,544.40	1,678.82	1421.42	3,570,732	3,570,732
Apartments Low Rise	1,890.00	2,054.50	1739.50	4,369,777	4,369,777
Apartments Mid Rise	1,375.50	1,319.50	1211.00	3,104,112	3,104,112
Apartments Mid Rise	1,858.89	1,783.21	1636.58	4,194,986	4,194,986
Apartments Mid Rise	1,206.51	1,157.39	1062.22	2,722,750	2,722,750
City Park	56.70	682.50	502.20	447,770	447,770
City Park	5.16	62.11	45.70	40,747	40,747
Convenience Market (24 Hour)	0.00	0.00	0.00		
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Single Family Housing	1,893.34	1,970.06	1715.24	4,339,422	4,339,422
Unenclosed Parking Structure	202.00	202.00	202.00	153,839	153,839
Total	10,954.90	11,933.49	10,178.46	24,683,392	24,683,392

4.3 Trip Type Information

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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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Unenclosed Parking Structure	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Apartments Mid Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
City Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Convenience Market (24 Hour)	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Quality Restaurant	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Regional Shopping Center	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Single Family Housing	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Unenclosed Parking Structure	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843

5.0 Energy Detail

Historical Energy Use: N

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	718.2977	718.2977	0.1164	0.0141	725.4101
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	718.2977	718.2977	0.1164	0.0141	725.4101
NaturalGas Mitigated	0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	1,507.9783	1,507.9783	0.0289	0.0277	1,516.9395
NaturalGas Unmitigated	0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	1,507.9783	1,507.9783	0.0289	0.0277	1,516.9395

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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					
Apartments Low Rise	4.18628e+006	0.0226	0.1929	0.0821	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.3958	223.3958	4.2800e-003	4.1000e-003	224.7233
Apartments Low Rise	5.12307e+006	0.0276	0.2361	0.1005	1.5100e-003		0.0191	0.0191		0.0191	0.0191	0.0000	273.3865	273.3865	5.2400e-003	5.0100e-003	275.0111
Apartments Mid Rise	2.0357e+006	0.0110	0.0938	0.0399	6.0000e-004		7.5800e-003	7.5800e-003		7.5800e-003	7.5800e-003	0.0000	108.6328	108.6328	2.0800e-003	1.9900e-003	109.2783
Apartments Mid Rise	2.32083e+006	0.0125	0.1069	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003	0.0000	123.8485	123.8485	2.3700e-003	2.2700e-003	124.5844
Apartments Mid Rise	3.13644e+006	0.0169	0.1445	0.0615	9.2000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	167.3724	167.3724	3.2100e-003	3.0700e-003	168.3670
City Park	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
Convenience Market (24 Hour)	30000	1.6000e-004	1.4700e-003	1.2400e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6009	1.6009	3.0000e-005	3.0000e-005	1.6104
Quality Restaurant	1.693e+006	0.0183	0.1660	0.1394	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	180.6899	180.6899	3.4600e-003	3.3100e-003	181.7636
Regional Shopping Center	54800	5.9000e-004	5.3700e-003	4.5100e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8487	5.8487	1.1000e-004	1.1000e-004	5.8834
Single Family Housing	7.93052e+006	0.0428	0.3654	0.1555	2.3300e-003		0.0296	0.0296		0.0296	0.0296	0.0000	423.2030	423.2030	8.1100e-003	7.7600e-003	425.7179
Unenclosed Parking Structure	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		0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	1,507.9783	1,507.9783	0.0289	0.0277	1,516.9395

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas 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					
Apartments Low Rise	4.18628e+006	0.0226	0.1929	0.0821	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.3958	223.3958	4.2800e-003	4.1000e-003	224.7233
Apartments Low Rise	5.12307e+006	0.0276	0.2361	0.1005	1.5100e-003		0.0191	0.0191		0.0191	0.0191	0.0000	273.3865	273.3865	5.2400e-003	5.0100e-003	275.0111
Apartments Mid Rise	2.0357e+006	0.0110	0.0938	0.0399	6.0000e-004		7.5800e-003	7.5800e-003		7.5800e-003	7.5800e-003	0.0000	108.6328	108.6328	2.0800e-003	1.9900e-003	109.2783
Apartments Mid Rise	2.32083e+006	0.0125	0.1069	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003	0.0000	123.8485	123.8485	2.3700e-003	2.2700e-003	124.5844
Apartments Mid Rise	3.13644e+006	0.0169	0.1445	0.0615	9.2000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	167.3724	167.3724	3.2100e-003	3.0700e-003	168.3670
City Park	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
Convenience Market (24 Hour)	30000	1.6000e-004	1.4700e-003	1.2400e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6009	1.6009	3.0000e-005	3.0000e-005	1.6104
Quality Restaurant	1.693e+006	0.0183	0.1660	0.1394	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	180.6899	180.6899	3.4600e-003	3.3100e-003	181.7636
Regional Shopping Center	54800	5.9000e-004	5.3700e-003	4.5100e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8487	5.8487	1.1000e-004	1.1000e-004	5.8834
Single Family Housing	7.93052e+006	0.0428	0.3654	0.1555	2.3300e-003		0.0296	0.0296		0.0296	0.0296	0.0000	423.2030	423.2030	8.1100e-003	7.7600e-003	425.7179
Unenclosed Parking Structure	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		0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	1,507.9783	1,507.9783	0.0289	0.0277	1,516.9395

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	408960	37.7866	6.1200e-003	7.4000e-004	38.1607
Apartments Low Rise	500476	46.2423	7.4900e-003	9.1000e-004	46.7002
Apartments Mid Rise	1.40606e+006	129.9151	0.0211	2.5500e-003	131.2015
Apartments Mid Rise	1.603e+006	148.1117	0.0240	2.9100e-003	149.5783
Apartments Mid Rise	2.16634e+006	200.1624	0.0324	3.9300e-003	202.1443
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	60700	5.6085	9.1000e-004	1.1000e-004	5.6640
Quality Restaurant	294800	54.4771	8.8300e-003	1.0700e-003	55.0166
Regional Shopping Center	109300	20.1979	3.2700e-003	4.0000e-004	20.3979
Single Family Housing	774732	71.5828	0.0116	1.4100e-003	72.2916
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		718.2977	0.1164	0.0141	725.4101

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	408960	37.7866	6.1200e-003	7.4000e-004	38.1607
Apartments Low Rise	500476	46.2423	7.4900e-003	9.1000e-004	46.7002
Apartments Mid Rise	1.40606e+006	129.9151	0.0211	2.5500e-003	131.2015
Apartments Mid Rise	1.603e+006	148.1117	0.0240	2.9100e-003	149.5783
Apartments Mid Rise	2.16634e+006	200.1624	0.0324	3.9300e-003	202.1443
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	60700	5.6085	9.1000e-004	1.1000e-004	5.6640
Quality Restaurant	294800	54.4771	8.8300e-003	1.0700e-003	55.0166
Regional Shopping Center	109300	20.1979	3.2700e-003	4.0000e-004	20.3979
Single Family Housing	774732	71.5828	0.0116	1.4100e-003	72.2916
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		718.2977	0.1164	0.0141	725.4101

6.0 Area Detail

6.1 Mitigation Measures Area

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa 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	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Unmitigated	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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	1.6146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa 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	1.6146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	131.6477	4.6033	0.1101	279.5293
Unmitigated	142.6839	4.6050	0.1103	290.6747

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	41.438 / 26.1239	42.3118	1.3550	0.0325	85.8580
Apartments Mid Rise	73.624 / 46.4152	75.1767	2.4074	0.0577	152.5464
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.226996	0.3761	0.0121	2.9000e-004	0.7653
Quality Restaurant	6.07067 / 0.38749	5.0863	0.1983	4.7300e-003	11.4549
Regional Shopping Center	1.48145 / 0.907986	1.5043	0.0484	1.1600e-003	3.0610
Single Family Housing	17.8522 / 11.2546	18.2287	0.5838	0.0140	36.9891
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		142.6838	4.6050	0.1103	290.6747

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	41.438 / 15.6744	38.9325	1.3544	0.0324	82.4453
Apartments Mid Rise	73.624 / 27.8491	69.1726	2.4065	0.0576	146.4829
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.136198	0.3467	0.0121	2.9000e-004	0.7356
Quality Restaurant	6.07067 / 0.232494	5.0362	0.1983	4.7300e-003	11.4042
Regional Shopping Center	1.48145 / 0.544791	1.3868	0.0484	1.1600e-003	2.9424
Single Family Housing	17.8522 / 6.75279	16.7728	0.5835	0.0140	35.5189
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		131.6477	4.6033	0.1101	279.5293

8.0 Waste Detail

8.1 Mitigation Measures Waste

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	935.4514	55.2836	0.0000	2,317.541 2
Unmitigated	935.4514	55.2836	0.0000	2,317.541 2

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	2522	511.9432	30.2550	0.0000	1,268.3176
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		935.4514	55.2836	0.0000	2,317.5412

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	2522	511.9432	30.2550	0.0000	1,268.3176
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		935.4514	55.2836	0.0000	2,317.5412

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

**Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	100.00	Space	0.00	40,000.00	0
City Park	30.00	Acre	30.00	1,306,800.00	0
City Park	2.73	Acre	2.73	118,918.80	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Apartments Low Rise	286.00	Dwelling Unit	8.97	286,000.00	818
Apartments Low Rise	350.00	Dwelling Unit	10.98	350,000.00	1001
Apartments Mid Rise	350.00	Dwelling Unit	4.62	350,000.00	1001
Apartments Mid Rise	473.00	Dwelling Unit	6.24	473,000.00	1353
Apartments Mid Rise	307.00	Dwelling Unit	4.05	307,000.00	878
Single Family Housing	274.00	Dwelling Unit	44.65	493,200.00	784
Convenience Market (24 Hour)	5.00	1000sqft	0.00	5,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year		2024	
Utility Company	Pacific Gas & Electric Company				

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CO2 Intensity (lb/MW hr)	203.7	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project operational year = 2024. Updated electricity emission factors to incorporate RPS for 2024.

Land Use - CalEEMod acreage scaled to match project acreage of 80 acres for Residential , retail and restaurant.

Construction Phase - Construction duration is from 2/1/2021 to 11/30/2028 based on Suncal schedule. Total construction days match inputs provided by AES. Exact start and end dates are defined by CalEEMod and won't exactly match AES/SunCal inputs

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment - Construction equipment updated to match inputs provided by developer/AES.

Off-road Equipment -

Off-road Equipment - Construction equipment updated to match inputs provided by developer/AES.

Off-road Equipment -

Trips and VMT - CalEEMod default trip rates

Demolition - Input provided by AES/developer.

Grading - Total soil quantity exported is 355,000 cu yd. Grading area for bay trail development is 2.73 acres. Grading area for project is 90 acres.

Vehicle Emission Factors - EMFAC 2017 Emission Factors. See Air Quality Appendix Table A12 for EMFAC2017 inputs.

Road Dust - Updated silt loading factor is specific to Contra Costa county. See Air Quality Appendix Table EF2 for details.

Woodstoves - 600 Natural Gas fireplaces to be installed with the project.

Consumer Products - Consumer Product emission factors are updated to reflect statewide 2017 factors. See Air Quality Appendix Table A13 for further details.

Landscape Equipment - Total landscaping days set to zero

Energy Use - See Air Quality Appendix Table A14 for details on updated energy intensity values.

Solid Waste - See Air Quality Appendix Table A16 for details on updated solid waste generation rates.

Area Mitigation - No mitigation

Energy Mitigation - No mitigation measure

Water Mitigation - No mitigation measure

Waste Mitigation - No mitigation measure

Stationary Sources - Emergency Generators and Fire Pumps - Emergency generators evaluated outside of CalEEMod.

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Table Name	Column Name	Default Value	New Value
tblApplianceMitigation	PercentImprovement	30.00	0.00
tblApplianceMitigation	PercentImprovement	30.00	0.00
tblApplianceMitigation	PercentImprovement	30.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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
tblConstructionPhase	NumDays	220.00	110.00
tblConstructionPhase	NumDays	3,100.00	1,550.00
tblConstructionPhase	NumDays	200.00	78.00
tblConstructionPhase	NumDays	310.00	261.00
tblConstructionPhase	NumDays	310.00	262.00

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tblConstructionPhase	NumDays	220.00	125.00
tblConstructionPhase	NumDays	120.00	89.00
tblConsumerProducts	ROG_EF	2.14E-05	1.55E-05
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	741.44	698.33
tblEnergyUse	LightingElect	4.88	5.88
tblEnergyUse	LightingElect	5.34	5.61
tblEnergyUse	LightingElect	4.88	5.12
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	1.75	1.14
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	3,054.10	2,848.06
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	NT24NG	2,615.00	1,662.07
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	128.02	128.00
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	T24E	233.06	1,429.93
tblEnergyUse	T24E	426.45	1,033.60
tblEnergyUse	T24E	2.24	2.90
tblEnergyUse	T24E	2.67	2.90
tblEnergyUse	T24E	2.24	2.45
tblEnergyUse	T24E	217.68	2,827.49
tblEnergyUse	T24NG	17,734.50	12,676.09
tblEnergyUse	T24NG	6,115.43	4,968.88

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tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02

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tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12

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tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblGrading	AcresOfGrading	1,696.50	90.00
tblGrading	AcresOfGrading	622.25	2.73
tblGrading	MaterialExported	0.00	344,550.00
tblGrading	MaterialExported	0.00	10,450.00
tblLandUse	LotAcreage	0.90	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	17.88	8.97
tblLandUse	LotAcreage	21.88	10.98
tblLandUse	LotAcreage	8.08	4.05
tblLandUse	LotAcreage	9.21	4.62

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tblLandUse	LotAcreage	12.45	6.24
tblLandUse	LotAcreage	88.96	44.65
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblOffRoadEquipment	HorsePower	402.00	367.00
tblOffRoadEquipment	LoadFactor	0.38	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	641.35	203.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblRoadDust	RoadSiltLoading	0.1	0.047
tblSolidWaste	SolidWasteGenerationRate	292.56	1,420.00
tblSolidWaste	SolidWasteGenerationRate	519.80	2,522.00
tblSolidWaste	SolidWasteGenerationRate	21.00	18.25
tblSolidWaste	SolidWasteGenerationRate	329.28	612.00
tblVehicleEF	HHD	0.41	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.58	6.28

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tblVehicleEF	HHD	0.84	0.40
tblVehicleEF	HHD	2.87	5.3000e-003
tblVehicleEF	HHD	4,335.05	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.83	5.34
tblVehicleEF	HHD	1.90	2.66
tblVehicleEF	HHD	19.75	2.36
tblVehicleEF	HHD	7.9210e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	7.5790e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.41	0.42
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01

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tblVehicleEF	HHD	1.3500e-004	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.48	0.49
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.39	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.15	6.28
tblVehicleEF	HHD	0.85	0.40
tblVehicleEF	HHD	2.61	5.3000e-003
tblVehicleEF	HHD	4,592.60	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	14.28	5.34
tblVehicleEF	HHD	1.83	2.66
tblVehicleEF	HHD	19.74	2.36
tblVehicleEF	HHD	6.6780e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	6.3890e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03

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tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.39	0.42
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3100e-004	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.45	0.49
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.45	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.17	6.28
tblVehicleEF	HHD	0.83	0.40
tblVehicleEF	HHD	3.11	5.3000e-003
tblVehicleEF	HHD	3,979.39	1,039.23

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tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.22	5.34
tblVehicleEF	HHD	1.93	2.66
tblVehicleEF	HHD	19.77	2.36
tblVehicleEF	HHD	9.6380e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	9.2210e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004

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tblVehicleEF	HHD	0.51	0.49
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	LDA	3.2820e-003	1.8000e-003
tblVehicleEF	LDA	4.5120e-003	0.05
tblVehicleEF	LDA	0.48	0.52
tblVehicleEF	LDA	1.04	2.15
tblVehicleEF	LDA	229.87	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.2620e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.3010e-003	2.4000e-003
tblVehicleEF	LDA	5.4600e-004	5.0000e-004

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tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	3.7280e-003	1.8000e-003
tblVehicleEF	LDA	3.6390e-003	0.05
tblVehicleEF	LDA	0.58	0.52
tblVehicleEF	LDA	0.80	2.15
tblVehicleEF	LDA	251.31	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	9.3650e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.21
tblVehicleEF	LDA	2.5170e-003	2.4000e-003

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tblVehicleEF	LDA	5.4200e-004	5.0000e-004
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.23
tblVehicleEF	LDA	3.1830e-003	1.8000e-003
tblVehicleEF	LDA	5.1540e-003	0.05
tblVehicleEF	LDA	0.47	0.52
tblVehicleEF	LDA	1.24	2.15
tblVehicleEF	LDA	226.93	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	8.0170e-003	6.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21

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tblVehicleEF	LDA	2.2720e-003	2.4000e-003
tblVehicleEF	LDA	5.4900e-004	5.0000e-004
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDT1	6.8390e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.88	0.87
tblVehicleEF	LDT1	2.31	2.34
tblVehicleEF	LDT1	287.67	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.13	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08

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tblVehicleEF	LDT1	0.15	0.32
tblVehicleEF	LDT1	2.8860e-003	2.8000e-003
tblVehicleEF	LDT1	7.0800e-004	6.0000e-004
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.16	0.35
tblVehicleEF	LDT1	7.6930e-003	3.8000e-003
tblVehicleEF	LDT1	8.8990e-003	0.07
tblVehicleEF	LDT1	1.05	0.87
tblVehicleEF	LDT1	1.76	2.34
tblVehicleEF	LDT1	313.61	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.11	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.02	0.02

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tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.12	0.32
tblVehicleEF	LDT1	3.1480e-003	2.8000e-003
tblVehicleEF	LDT1	6.9900e-004	6.0000e-004
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.13	0.35
tblVehicleEF	LDT1	6.6770e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.87	0.87
tblVehicleEF	LDT1	2.76	2.34
tblVehicleEF	LDT1	284.11	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.10	0.07
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08

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tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8500e-003	2.8000e-003
tblVehicleEF	LDT1	7.1600e-004	6.0000e-004
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT2	4.4150e-003	2.9000e-003
tblVehicleEF	LDT2	5.8360e-003	0.06
tblVehicleEF	LDT2	0.62	0.70
tblVehicleEF	LDT2	1.34	2.74
tblVehicleEF	LDT2	323.78	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12

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tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.2420e-003	3.0000e-003
tblVehicleEF	LDT2	7.6900e-004	7.0000e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.0080e-003	2.9000e-003
tblVehicleEF	LDT2	4.7080e-003	0.06
tblVehicleEF	LDT2	0.75	0.70
tblVehicleEF	LDT2	1.03	2.74
tblVehicleEF	LDT2	353.38	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.09	0.06

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tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	3.5390e-003	3.0000e-003
tblVehicleEF	LDT2	7.6400e-004	7.0000e-004
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.32
tblVehicleEF	LDT2	4.2820e-003	2.9000e-003
tblVehicleEF	LDT2	6.6640e-003	0.06
tblVehicleEF	LDT2	0.60	0.70
tblVehicleEF	LDT2	1.58	2.74
tblVehicleEF	LDT2	319.73	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003

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tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.2010e-003	3.0000e-003
tblVehicleEF	LDT2	7.7400e-004	7.0000e-004
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.99	0.77
tblVehicleEF	LHD1	2.29	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.39	0.94
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004

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tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003

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tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.01	0.77
tblVehicleEF	LHD1	2.10	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.33	0.94
tblVehicleEF	LHD1	0.87	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20

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tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.3800e-004	1.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.16	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.24	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.77
tblVehicleEF	LHD1	2.47	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.42	0.94
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01

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tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4500e-004	1.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.0300e-003	6.9000e-003
tblVehicleEF	LHD2	5.6740e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13

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tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	1.02	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.77	0.98
tblVehicleEF	LHD2	0.40	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003

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tblVehicleEF	LHD2	2.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.1180e-003	6.9000e-003
tblVehicleEF	LHD2	5.3450e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	0.94	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.74	0.98
tblVehicleEF	LHD2	0.38	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04

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tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4200e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	6.9590e-003	6.9000e-003
tblVehicleEF	LHD2	5.9550e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.64
tblVehicleEF	LHD2	1.09	0.55
tblVehicleEF	LHD2	14.17	14.31

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tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.78	0.98
tblVehicleEF	LHD2	0.42	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03

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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.16	0.26
tblVehicleEF	MCY	19.70	20.00
tblVehicleEF	MCY	10.22	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.27	2.29
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	2.1230e-003	2.1000e-003
tblVehicleEF	MCY	6.8900e-004	6.0000e-004

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tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.81	2.82
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.43	2.15
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.13	0.26
tblVehicleEF	MCY	18.98	20.00
tblVehicleEF	MCY	8.86	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.02	1.16
tblVehicleEF	MCY	0.29	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.18	2.29
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.83	1.98
tblVehicleEF	MCY	2.1090e-003	2.1000e-003

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tblVehicleEF	MCY	6.5400e-004	6.0000e-004
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.70	2.82
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.99	2.15
tblVehicleEF	MCY	0.47	0.34
tblVehicleEF	MCY	0.19	0.26
tblVehicleEF	MCY	21.47	20.00
tblVehicleEF	MCY	11.78	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.25	1.16
tblVehicleEF	MCY	0.35	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.37	2.29
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.62	1.98

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tblVehicleEF	MCY	2.1550e-003	2.1000e-003
tblVehicleEF	MCY	7.2600e-004	6.0000e-004
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.94	2.82
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.85	2.15
tblVehicleEF	MDV	8.6020e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.97	0.82
tblVehicleEF	MDV	2.71	3.10
tblVehicleEF	MDV	443.89	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.24	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.06

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tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4430e-003	3.8000e-003
tblVehicleEF	MDV	1.0620e-003	8.0000e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	9.7400e-003	3.8000e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.18	0.82
tblVehicleEF	MDV	2.08	3.10
tblVehicleEF	MDV	483.31	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.21	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.02	0.02

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tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.38
tblVehicleEF	MDV	4.8400e-003	3.8000e-003
tblVehicleEF	MDV	1.0500e-003	8.0000e-004
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.04	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.42
tblVehicleEF	MDV	8.3570e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.96	0.82
tblVehicleEF	MDV	3.22	3.10
tblVehicleEF	MDV	438.49	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08

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tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.23	0.38
tblVehicleEF	MDV	4.3890e-003	3.8000e-003
tblVehicleEF	MDV	1.0710e-003	8.0000e-004
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.25	0.42
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.46	0.85
tblVehicleEF	MH	4.96	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.34	1.52
tblVehicleEF	MH	0.78	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004

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tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.6600e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.32	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.52	0.85
tblVehicleEF	MH	4.45	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.26	1.52
tblVehicleEF	MH	0.72	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06

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tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.27	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5800e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.41	0.85
tblVehicleEF	MH	5.39	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.38	1.52
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01

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tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7400e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.4400e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.37	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.47	1.19
tblVehicleEF	MHD	134.03	84.01

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tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.38	0.52
tblVehicleEF	MHD	1.11	1.47
tblVehicleEF	MHD	10.23	1.66
tblVehicleEF	MHD	1.4100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.3500e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	1.2910e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0200e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	4.6600e-004	2.0000e-004

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tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.01	4.0000e-003
tblVehicleEF	MHD	4.5430e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.43
tblVehicleEF	MHD	0.36	0.27
tblVehicleEF	MHD	4.98	1.19
tblVehicleEF	MHD	142.13	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.40	0.52
tblVehicleEF	MHD	1.07	1.47
tblVehicleEF	MHD	10.17	1.66
tblVehicleEF	MHD	1.1900e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.1400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1250e-003	2.0000e-004

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tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	1.3670e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9400e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.3600e-003	2.1000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.94	1.19
tblVehicleEF	MHD	123.22	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.37	0.52
tblVehicleEF	MHD	1.13	1.47
tblVehicleEF	MHD	10.28	1.66
tblVehicleEF	MHD	1.7100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13

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tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.6400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	1.1890e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.3020e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.53	0.98
tblVehicleEF	OBUS	5.50	2.88

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tblVehicleEF	OBUS	71.68	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.14	0.23
tblVehicleEF	OBUS	0.75	1.13
tblVehicleEF	OBUS	2.17	0.68
tblVehicleEF	OBUS	1.3000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.34	0.14
tblVehicleEF	OBUS	6.9600e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.37	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.5680e-003	9.0000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	4.94	2.88
tblVehicleEF	OBUS	74.94	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.15	0.23
tblVehicleEF	OBUS	0.71	1.13
tblVehicleEF	OBUS	2.10	0.68
tblVehicleEF	OBUS	1.1000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05

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tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.32	0.14
tblVehicleEF	OBUS	7.2700e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7700e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.35	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.0920e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.52	0.98
tblVehicleEF	OBUS	5.95	2.88
tblVehicleEF	OBUS	67.19	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.13	0.23
tblVehicleEF	OBUS	0.77	1.13
tblVehicleEF	OBUS	2.23	0.68
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004

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tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.36	0.14
tblVehicleEF	OBUS	6.5300e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9500e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1030e-003	2.6000e-003
tblVehicleEF	SBUS	0.06	1.3000e-003

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tblVehicleEF	SBUS	2.09	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.33	0.19
tblVehicleEF	SBUS	1,440.18	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.22	2.23
tblVehicleEF	SBUS	4.78	2.75
tblVehicleEF	SBUS	19.18	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2700e-004	0.00

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tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	8.0000e-003
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1440e-003	2.6000e-003
tblVehicleEF	SBUS	0.05	1.3000e-003
tblVehicleEF	SBUS	1.93	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	0.91	0.19
tblVehicleEF	SBUS	1,522.68	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.64	2.23
tblVehicleEF	SBUS	4.59	2.75
tblVehicleEF	SBUS	19.17	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	9.5970e-003	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00

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tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.24	0.09
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.05	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2100e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.33	0.12
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.06	8.0000e-003
tblVehicleEF	SBUS	0.88	0.02
tblVehicleEF	SBUS	6.0730e-003	2.6000e-003
tblVehicleEF	SBUS	0.07	1.3000e-003
tblVehicleEF	SBUS	2.33	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.66	0.19
tblVehicleEF	SBUS	1,326.25	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	12.63	2.23

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tblVehicleEF	SBUS	4.86	2.75
tblVehicleEF	SBUS	19.19	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.3300e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	8.0000e-003

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tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.07	1.5000e-003
tblVehicleEF	UBUS	4.04	8.13
tblVehicleEF	UBUS	11.74	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.66	0.64
tblVehicleEF	UBUS	12.20	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.98	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7290e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004

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tblVehicleEF	UBUS	0.65	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	1.08	5.8000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.06	1.5000e-003
tblVehicleEF	UBUS	4.11	8.13
tblVehicleEF	UBUS	9.17	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.41	0.64
tblVehicleEF	UBUS	12.07	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.39	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.85	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.6840e-003	0.00

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tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.66	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.93	5.8000e-003
tblVehicleEF	UBUS	0.23	1.10
tblVehicleEF	UBUS	0.08	1.5000e-003
tblVehicleEF	UBUS	4.00	8.13
tblVehicleEF	UBUS	14.08	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.77	0.64
tblVehicleEF	UBUS	12.31	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.03	1.0000e-004

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tblVehicleEF	UBUS	1.10	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7700e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.64	1.12
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.20	5.8000e-003
tblVehicleTrips	CC_TTP	0.00	80.10
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	0.90
tblVehicleTrips	DV_TP	18.00	40.00
tblVehicleTrips	DV_TP	35.00	40.00
tblVehicleTrips	DV_TP	0.00	15.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	0.00	61.00
tblVehicleTrips	PR_TP	38.00	60.00
tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	PR_TP	0.00	24.00
tblVehicleTrips	ST_TR	7.16	5.87
tblVehicleTrips	ST_TR	6.39	3.77
tblVehicleTrips	ST_TR	863.10	0.00
tblVehicleTrips	ST_TR	94.36	24.19
tblVehicleTrips	ST_TR	49.97	26.98
tblVehicleTrips	ST_TR	9.91	7.19

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tblVehicleTrips	ST_TR	0.00	2.02
tblVehicleTrips	SU_TR	6.07	4.97
tblVehicleTrips	SU_TR	5.86	3.46
tblVehicleTrips	SU_TR	758.45	0.00
tblVehicleTrips	SU_TR	72.16	18.50
tblVehicleTrips	SU_TR	25.24	13.63
tblVehicleTrips	SU_TR	8.62	6.26
tblVehicleTrips	SU_TR	0.00	2.02
tblVehicleTrips	WD_TR	6.59	5.40
tblVehicleTrips	WD_TR	6.65	3.93
tblVehicleTrips	WD_TR	737.99	0.00
tblVehicleTrips	WD_TR	89.95	23.06
tblVehicleTrips	WD_TR	42.70	23.06
tblVehicleTrips	WD_TR	9.52	6.91
tblVehicleTrips	WD_TR	0.00	2.02
tblWater	OutdoorWaterUseRate	38,997,184.57	0.00
tblWoodstoves	NumberCatalytic	12.72	0.00
tblWoodstoves	NumberCatalytic	22.60	0.00
tblWoodstoves	NumberCatalytic	10.96	0.00
tblWoodstoves	NumberNoncatalytic	12.72	0.00
tblWoodstoves	NumberNoncatalytic	22.60	0.00
tblWoodstoves	NumberNoncatalytic	10.96	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

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tblWoodstoves	WoodstoveWoodMass	956.80	0.00
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2.0 Emissions Summary

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					
2021	1.2161	16.2072	8.5517	0.0283	1.8677	0.5252	2.3929	0.8817	0.4842	1.3658	0.0000	2,597.7828	2,597.7828	0.4832	0.0000	2,609.8618
2022	0.7771	8.8607	6.3025	0.0185	1.1548	0.3089	1.4637	0.4889	0.2845	0.7734	0.0000	1,665.0865	1,665.0865	0.3862	0.0000	1,674.7403
2023	13.8535	8.0501	10.0238	0.0409	2.7108	0.1637	2.8746	0.7573	0.1547	0.9120	0.0000	3,759.6173	3,759.6173	0.2094	0.0000	3,764.8524
2024	4.5389	6.7742	8.3545	0.0372	2.5196	0.1044	2.6240	0.6794	0.0984	0.7778	0.0000	3,430.0241	3,430.0241	0.1582	0.0000	3,433.9797
2025	0.9266	6.3971	7.6609	0.0356	2.4721	0.0864	2.5586	0.6667	0.0811	0.7479	0.0000	3,290.3063	3,290.3063	0.1511	0.0000	3,294.0837
2026	0.8897	6.3038	7.3274	0.0349	2.4721	0.0860	2.5581	0.6667	0.0807	0.7474	0.0000	3,225.3222	3,225.3222	0.1474	0.0000	3,229.0060
2027	0.8548	6.2134	7.0366	0.0343	2.4721	0.0852	2.5573	0.6667	0.0800	0.7467	0.0000	3,167.4309	3,167.4309	0.1440	0.0000	3,171.0301
2028	0.7510	5.6194	6.2147	0.0309	2.2638	0.0772	2.3409	0.6105	0.0725	0.6830	0.0000	2,854.2982	2,854.2982	0.1291	0.0000	2,857.5262
Maximum	13.8535	16.2072	10.0238	0.0409	2.7108	0.5252	2.8746	0.8817	0.4842	1.3658	0.0000	3,759.6173	3,759.6173	0.4832	0.0000	3,764.8524

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2.1 Overall Construction

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					
2021	0.4376	6.6648	8.7730	0.0283	1.0488	0.0969	1.1457	0.4528	0.0913	0.5441	0.0000	2,597.781 2	2,597.781 2	0.4832	0.0000	2,609.860 2
2022	0.3649	3.8941	7.0339	0.0185	0.7387	0.1010	0.8398	0.2765	0.0944	0.3709	0.0000	1,665.085 2	1,665.085 2	0.3862	0.0000	1,674.738 9
2023	13.5888	5.5257	10.3178	0.0409	2.6563	0.0329	2.6892	0.7278	0.0312	0.7590	0.0000	3,759.616 7	3,759.616 7	0.2094	0.0000	3,764.851 7
2024	4.3745	5.2011	8.5261	0.0372	2.5196	0.0239	2.5436	0.6794	0.0227	0.7021	0.0000	3,430.023 7	3,430.023 7	0.1582	0.0000	3,433.979 3
2025	0.7910	5.0614	7.8404	0.0356	2.4721	0.0229	2.4950	0.6667	0.0217	0.6884	0.0000	3,290.306 0	3,290.306 0	0.1511	0.0000	3,294.083 4
2026	0.7540	4.9682	7.5069	0.0349	2.4721	0.0224	2.4946	0.6667	0.0212	0.6880	0.0000	3,225.321 9	3,225.321 9	0.1474	0.0000	3,229.005 6
2027	0.7192	4.8778	7.2161	0.0343	2.4721	0.0217	2.4938	0.6667	0.0206	0.6873	0.0000	3,167.430 5	3,167.430 5	0.1440	0.0000	3,171.029 7
2028	0.6268	4.3963	6.3791	0.0309	2.2638	0.0190	2.2828	0.6105	0.0180	0.6286	0.0000	2,854.297 9	2,854.297 9	0.1291	0.0000	2,857.525 8
Maximum	13.5888	6.6648	10.3178	0.0409	2.6563	0.1010	2.6892	0.7278	0.0944	0.7590	0.0000	3,759.616 7	3,759.616 7	0.4832	0.0000	3,764.851 7

	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	9.03	37.00	-3.45	0.00	7.19	76.28	12.32	12.38	75.97	24.96	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	2-1-2021	4-30-2021	3.6175	0.8996
2	5-1-2021	7-31-2021	5.8880	2.3394

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3	8-1-2021	10-31-2021	4.6736	2.2709
4	11-1-2021	1-31-2022	5.0925	2.4874
5	2-1-2022	4-30-2022	4.8333	2.2298
6	5-1-2022	7-31-2022	1.6509	0.6295
7	8-1-2022	10-31-2022	1.4097	0.3883
8	11-1-2022	1-31-2023	2.2788	1.1031
9	2-1-2023	4-30-2023	2.3358	1.6268
10	5-1-2023	7-31-2023	1.9818	1.5416
11	8-1-2023	10-31-2023	8.6904	8.0174
12	11-1-2023	1-31-2024	12.0841	11.3127
13	2-1-2024	4-30-2024	1.9981	1.5975
14	5-1-2024	7-31-2024	1.9090	1.5031
15	8-1-2024	10-31-2024	1.9199	1.5140
16	11-1-2024	1-31-2025	1.9168	1.5229
17	2-1-2025	4-30-2025	1.7975	1.4391
18	5-1-2025	7-31-2025	1.8380	1.4676
19	8-1-2025	10-31-2025	1.8482	1.4778
20	11-1-2025	1-31-2026	1.8568	1.4863
21	2-1-2026	4-30-2026	1.7649	1.4066
22	5-1-2026	7-31-2026	1.8055	1.4350
23	8-1-2026	10-31-2026	1.8151	1.4447
24	11-1-2026	1-31-2027	1.8230	1.4525
25	2-1-2027	4-30-2027	1.7336	1.3753
26	5-1-2027	7-31-2027	1.7742	1.4038
27	8-1-2027	10-31-2027	1.7833	1.4128
28	11-1-2027	1-31-2028	1.7912	1.4208
29	2-1-2028	4-30-2028	1.7249	1.3625

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30	5-1-2028	7-31-2028	1.7463	1.3759
31	8-1-2028	9-30-2028	1.1579	0.9123
		Highest	12.0841	11.3127

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	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	2,226.2760	2,226.2760	0.1453	0.0418	2,242.3496
Mobile	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Waste						0.0000	0.0000		0.0000	0.0000	935.4514	0.0000	935.4514	55.2836	0.0000	2,317.5412
Water						0.0000	0.0000		0.0000	0.0000	44.6810	98.0029	142.6839	4.6050	0.1103	290.6747
Total	11.2502	7.5561	31.2013	0.1000	5.2810	0.1874	5.4684	1.4999	0.1826	1.6826	980.1324	10,858.9927	11,839.1251	60.4085	0.1548	13,395.4630

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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	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	2,226.2760	2,226.2760	0.1453	0.0418	2,242.3496
Mobile	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Waste						0.0000	0.0000		0.0000	0.0000	935.4514	0.0000	935.4514	55.2836	0.0000	2,317.5412
Water						0.0000	0.0000		0.0000	0.0000	44.6810	98.0029	142.6839	4.6050	0.1103	290.6747
Total	11.2502	7.5561	31.2013	0.1000	5.2810	0.1874	5.4684	1.4999	0.1826	1.6826	980.1324	10,858.9927	11,839.1251	60.4085	0.1548	13,395.4630

	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2021	5/19/2021	5	78	
2	Site Preparation	Site Preparation	3/1/2021	7/1/2021	5	89	
3	Grading	Grading	4/1/2021	3/31/2022	5	261	
4	Paving	Paving	1/1/2022	6/24/2022	5	125	
5	Bay Trail Grading	Grading	3/1/2022	3/1/2023	5	262	
6	Building Construction	Building Construction	12/23/2022	11/30/2028	5	1550	
7	Architectural Coating	Architectural Coating	9/1/2023	2/1/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 4,574,880; Residential Outdoor: 1,524,960; Non-Residential Indoor: 67,500; Non-Residential Outdoor: 22,500; Striped Parking Area: 2,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	6	8.00	367	0.48

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Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Bay Trail Grading	Excavators	1	6.00	158	0.38
Bay Trail Grading	Graders	1	6.00	187	0.41
Bay Trail Grading	Off-Highway Trucks	1	8.00	367	0.48
Bay Trail Grading	Paving Equipment	1	8.00	132	0.36
Bay Trail Grading	Plate Compactors	1	8.00	8	0.43
Bay Trail Grading	Rubber Tired Dozers	1	6.00	247	0.40
Bay Trail Grading	Scrapers	2	8.00	367	0.48
Bay Trail Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	8	6.00	78	0.48

Trips and VMT

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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
Demolition	6	15.00	0.00	227.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	30.00	0.00	43,069.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Bay Trail Grading	9	23.00	0.00	1,306.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,002.00	466.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	400.00	0.00	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

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

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					0.0246	0.0000	0.0246	3.7300e-003	0.0000	3.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1234	1.2262	0.8410	1.5100e-003		0.0605	0.0605		0.0562	0.0562	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361
Total	0.1234	1.2262	0.8410	1.5100e-003	0.0246	0.0605	0.0851	3.7300e-003	0.0562	0.0599	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

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					0.0111	0.0000	0.0111	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.0781	0.9079	1.5100e-003		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360
Total	0.0180	0.0781	0.9079	1.5100e-003	0.0111	2.4000e-003	0.0135	1.6800e-003	2.4000e-003	4.0800e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

3.3 Site Preparation - 2021

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					0.8040	0.0000	0.8040	0.4419	0.0000	0.4419	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1730	1.8021	0.9414	1.6900e-003		0.0910	0.0910		0.0837	0.0837	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920
Total	0.1730	1.8021	0.9414	1.6900e-003	0.8040	0.0910	0.8949	0.4419	0.0837	0.5256	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

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					0.3618	0.0000	0.3618	0.1989	0.0000	0.1989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.0898	0.9287	1.6900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918
Total	0.0207	0.0898	0.9287	1.6900e-003	0.3618	2.7600e-003	0.3645	0.1989	2.7600e-003	0.2016	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

3.4 Grading - 2021

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					0.6604	0.0000	0.6604	0.3342	0.0000	0.3342	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7790	8.7873	5.8014	0.0121		0.3596	0.3596		0.3308	0.3308	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347
Total	0.7790	8.7873	5.8014	0.0121	0.6604	0.3596	1.0200	0.3342	0.3308	0.6650	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

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					0.2972	0.0000	0.2972	0.1504	0.0000	0.1504	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2582	2.1053	5.9685	0.0121		0.0776	0.0776		0.0727	0.0727	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334
Total	0.2582	2.1053	5.9685	0.0121	0.2972	0.0776	0.3748	0.1504	0.0727	0.2231	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

3.4 Grading - 2022

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					0.2599	0.0000	0.2599	0.1140	0.0000	0.1140	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2209	2.3878	1.7454	3.9300e-003		0.0970	0.0970		0.0892	0.0892	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322
Total	0.2209	2.3878	1.7454	3.9300e-003	0.2599	0.0970	0.3569	0.1140	0.0892	0.2033	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

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					0.1170	0.0000	0.1170	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0786	0.5995	1.9088	3.9300e-003		0.0220	0.0220		0.0207	0.0207	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318
Total	0.0786	0.5995	1.9088	3.9300e-003	0.1170	0.0220	0.1390	0.0513	0.0207	0.0720	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

3.5 Paving - 2022

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

3.6 Bay Trail Grading - 2022

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					0.4966	0.0000	0.4966	0.2721	0.0000	0.2721	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4053	4.1437	3.0396	7.4600e-003		0.1689	0.1689		0.1555	0.1555	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293
Total	0.4053	4.1437	3.0396	7.4600e-003	0.4966	0.1689	0.6655	0.2721	0.1555	0.4276	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

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					0.2235	0.0000	0.2235	0.1224	0.0000	0.1224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1395	1.0055	3.6043	7.4600e-003		0.0384	0.0384		0.0361	0.0361	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286
Total	0.1395	1.0055	3.6043	7.4600e-003	0.2235	0.0384	0.2619	0.1224	0.0361	0.1586	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

3.6 Bay Trail Grading - 2023

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					0.0991	0.0000	0.0991	0.0536	0.0000	0.0536	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.7283	0.5768	1.4700e-003		0.0293	0.0293		0.0270	0.0270	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717
Total	0.0740	0.7283	0.5768	1.4700e-003	0.0991	0.0293	0.1284	0.0536	0.0270	0.0806	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

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					0.0446	0.0000	0.0446	0.0241	0.0000	0.0241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.1874	0.7054	1.4700e-003		7.1300e-003	7.1300e-003		6.7200e-003	6.7200e-003	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716
Total	0.0269	0.1874	0.7054	1.4700e-003	0.0446	7.1300e-003	0.0518	0.0241	6.7200e-003	0.0309	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

3.7 Building Construction - 2022

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	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.2700e-003	0.1365	0.0344	3.7000e-004	9.1900e-003	2.8000e-004	9.4800e-003	2.6600e-003	2.7000e-004	2.9300e-003	0.0000	35.7965	35.7965	1.5900e-003	0.0000	35.8363
Worker	0.0173	0.0117	0.1264	4.3000e-004	0.0476	3.0000e-004	0.0479	0.0127	2.8000e-004	0.0130	0.0000	38.8111	38.8111	8.2000e-004	0.0000	38.8317
Total	0.0216	0.1481	0.1608	8.0000e-004	0.0568	5.8000e-004	0.0574	0.0153	5.5000e-004	0.0159	0.0000	74.6076	74.6076	2.4100e-003	0.0000	74.6679

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	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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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	4.2700e-003	0.1365	0.0344	3.7000e-004	9.1900e-003	2.8000e-004	9.4800e-003	2.6600e-003	2.7000e-004	2.9300e-003	0.0000	35.7965	35.7965	1.5900e-003	0.0000	35.8363
Worker	0.0173	0.0117	0.1264	4.3000e-004	0.0476	3.0000e-004	0.0479	0.0127	2.8000e-004	0.0130	0.0000	38.8111	38.8111	8.2000e-004	0.0000	38.8317
Total	0.0216	0.1481	0.1608	8.0000e-004	0.0568	5.8000e-004	0.0574	0.0153	5.5000e-004	0.0159	0.0000	74.6076	74.6076	2.4100e-003	0.0000	74.6679

3.7 Building Construction - 2023

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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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	0.1396	4.5017	1.3296	0.0158	0.3985	5.3700e-003	0.4038	0.1152	5.1400e-003	0.1203	0.0000	1,508.0032	1,508.0032	0.0567	0.0000	1,509.4213
Worker	0.6980	0.4536	5.0353	0.0179	2.0642	0.0128	2.0770	0.5490	0.0118	0.5608	0.0000	1,616.4807	1,616.4807	0.0319	0.0000	1,617.2777
Total	0.8375	4.9553	6.3649	0.0336	2.4626	0.0182	2.4808	0.6642	0.0170	0.6811	0.0000	3,124.4839	3,124.4839	0.0886	0.0000	3,126.6991

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	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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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	0.1396	4.5017	1.3296	0.0158	0.3985	5.3700e-003	0.4038	0.1152	5.1400e-003	0.1203	0.0000	1,508.0032	1,508.0032	0.0567	0.0000	1,509.4213
Worker	0.6980	0.4536	5.0353	0.0179	2.0642	0.0128	2.0770	0.5490	0.0118	0.5608	0.0000	1,616.4807	1,616.4807	0.0319	0.0000	1,617.2777
Total	0.8375	4.9553	6.3649	0.0336	2.4626	0.0182	2.4808	0.6642	0.0170	0.6811	0.0000	3,124.4839	3,124.4839	0.0886	0.0000	3,126.6991

3.7 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

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3.7 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	0.1358	4.4765	1.2848	0.0158	0.4015	5.3000e-003	0.4068	0.1161	5.0700e-003	0.1212	0.0000	1,509.6770	1,509.6770	0.0556	0.0000	1,511.0675
Worker	0.6581	0.4120	4.6922	0.0173	2.0800	0.0127	2.0927	0.5532	0.0117	0.5649	0.0000	1,563.4979	1,563.4979	0.0289	0.0000	1,564.2198
Total	0.7938	4.8885	5.9770	0.0330	2.4816	0.0180	2.4995	0.6693	0.0167	0.6860	0.0000	3,073.1749	3,073.1749	0.0845	0.0000	3,075.2872

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	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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3.7 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	0.1358	4.4765	1.2848	0.0158	0.4015	5.3000e-003	0.4068	0.1161	5.0700e-003	0.1212	0.0000	1,509.6770	1,509.6770	0.0556	0.0000	1,511.0675
Worker	0.6581	0.4120	4.6922	0.0173	2.0800	0.0127	2.0927	0.5532	0.0117	0.5649	0.0000	1,563.4979	1,563.4979	0.0289	0.0000	1,564.2198
Total	0.7938	4.8885	5.9770	0.0330	2.4816	0.0180	2.4995	0.6693	0.0167	0.6860	0.0000	3,073.1749	3,073.1749	0.0845	0.0000	3,075.2872

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1312	4.3973	1.2383	0.0156	0.4000	5.1700e-003	0.4052	0.1156	4.9400e-003	0.1206	0.0000	1,494.3974	1,494.3974	0.0539	0.0000	1,495.7457
Worker	0.6170	0.3725	4.3235	0.0165	2.0721	0.0124	2.0845	0.5511	0.0114	0.5625	0.0000	1,493.2540	1,493.2540	0.0260	0.0000	1,493.9045
Total	0.7482	4.7698	5.5618	0.0321	2.4721	0.0176	2.4897	0.6667	0.0164	0.6831	0.0000	2,987.6514	2,987.6514	0.0800	0.0000	2,989.6502

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1312	4.3973	1.2383	0.0156	0.4000	5.1700e-003	0.4052	0.1156	4.9400e-003	0.1206	0.0000	1,494.3974	1,494.3974	0.0539	0.0000	1,495.7457
Worker	0.6170	0.3725	4.3235	0.0165	2.0721	0.0124	2.0845	0.5511	0.0114	0.5625	0.0000	1,493.2540	1,493.2540	0.0260	0.0000	1,493.9045
Total	0.7482	4.7698	5.5618	0.0321	2.4721	0.0176	2.4897	0.6667	0.0164	0.6831	0.0000	2,987.6514	2,987.6514	0.0800	0.0000	2,989.6502

3.7 Building Construction - 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					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 Building Construction - 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	0.0000	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	0.1277	4.3363	1.2071	0.0155	0.4000	5.0400e-003	0.4051	0.1157	4.8100e-003	0.1205	0.0000	1,485.7378	1,485.7378	0.0526	0.0000	1,487.0517
Worker	0.5835	0.3403	4.0212	0.0159	2.0721	0.0121	2.0842	0.5511	0.0111	0.5622	0.0000	1,436.9296	1,436.9296	0.0237	0.0000	1,437.5208
Total	0.7112	4.6765	5.2284	0.0314	2.4721	0.0171	2.4892	0.6667	0.0159	0.6827	0.0000	2,922.6673	2,922.6673	0.0762	0.0000	2,924.5725

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 Building Construction - 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	0.0000	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	0.1277	4.3363	1.2071	0.0155	0.4000	5.0400e-003	0.4051	0.1157	4.8100e-003	0.1205	0.0000	1,485.7378	1,485.7378	0.0526	0.0000	1,487.0517
Worker	0.5835	0.3403	4.0212	0.0159	2.0721	0.0121	2.0842	0.5511	0.0111	0.5622	0.0000	1,436.9296	1,436.9296	0.0237	0.0000	1,437.5208
Total	0.7112	4.6765	5.2284	0.0314	2.4721	0.0171	2.4892	0.6667	0.0159	0.6827	0.0000	2,922.6673	2,922.6673	0.0762	0.0000	2,924.5725

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1247	4.2743	1.1822	0.0154	0.4000	4.9100e-003	0.4050	0.1157	4.6900e-003	0.1204	0.0000	1,477.5860	1,477.5860	0.0513	0.0000	1,478.8675
Worker	0.5516	0.3119	3.7554	0.0153	2.0721	0.0115	2.0836	0.5511	0.0105	0.5616	0.0000	1,387.1900	1,387.1900	0.0216	0.0000	1,387.7291
Total	0.6764	4.5862	4.9376	0.0307	2.4721	0.0164	2.4885	0.6667	0.0152	0.6820	0.0000	2,864.7760	2,864.7760	0.0728	0.0000	2,866.5965

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1247	4.2743	1.1822	0.0154	0.4000	4.9100e-003	0.4050	0.1157	4.6900e-003	0.1204	0.0000	1,477.5860	1,477.5860	0.0513	0.0000	1,478.8675
Worker	0.5516	0.3119	3.7554	0.0153	2.0721	0.0115	2.0836	0.5511	0.0105	0.5616	0.0000	1,387.1900	1,387.1900	0.0216	0.0000	1,387.7291
Total	0.6764	4.5862	4.9376	0.0307	2.4721	0.0164	2.4885	0.6667	0.0152	0.6820	0.0000	2,864.7760	2,864.7760	0.0728	0.0000	2,866.5965

3.7 Building Construction - 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	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724
Total	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724

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3.7 Building Construction - 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	0.1120	3.8666	1.0666	0.0141	0.3663	4.4000e-003	0.3707	0.1059	4.2000e-003	0.1101	0.0000	1,346.8381	1,346.8381	0.0459	0.0000	1,347.9848
Worker	0.4756	0.2627	3.2260	0.0136	1.8974	9.7300e-003	1.9072	0.5046	8.9500e-003	0.5136	0.0000	1,230.3164	1,230.3164	0.0181	0.0000	1,230.7689
Total	0.5876	4.1293	4.2926	0.0276	2.2638	0.0141	2.2779	0.6105	0.0132	0.6237	0.0000	2,577.1544	2,577.1544	0.0640	0.0000	2,578.7537

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	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721
Total	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721

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3.7 Building Construction - 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	0.1120	3.8666	1.0666	0.0141	0.3663	4.4000e-003	0.3707	0.1059	4.2000e-003	0.1101	0.0000	1,346.8381	1,346.8381	0.0459	0.0000	1,347.9848
Worker	0.4756	0.2627	3.2260	0.0136	1.8974	9.7300e-003	1.9072	0.5046	8.9500e-003	0.5136	0.0000	1,230.3164	1,230.3164	0.0181	0.0000	1,230.7689
Total	0.5876	4.1293	4.2926	0.0276	2.2638	0.0141	2.2779	0.6105	0.0132	0.6237	0.0000	2,577.1544	2,577.1544	0.0640	0.0000	2,578.7537

3.8 Architectural Coating - 2023

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					
Archit. Coating	12.6236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0659	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633
Total	12.6895	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823
Total	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823

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					
Archit. Coating	12.6236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632
Total	12.6338	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823
Total	0.0461	0.0300	0.3328	1.1800e-003	0.1364	8.5000e-004	0.1373	0.0363	7.8000e-004	0.0371	0.0000	106.8296	106.8296	2.1100e-003	0.0000	106.8823

3.8 Architectural Coating - 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					
Archit. Coating	3.5229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.5402	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288
Total	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288

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					
Archit. Coating	3.5229					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.5257	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288
Total	0.0120	7.5400e-003	0.0859	3.2000e-004	0.0381	2.3000e-004	0.0383	0.0101	2.1000e-004	0.0103	0.0000	28.6156	28.6156	5.3000e-004	0.0000	28.6288

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001
Unmitigated	2.9340	6.1143	30.5161	0.0908	5.2810	0.0717	5.3526	1.4999	0.0669	1.5668	0.0000	8,384.9067	8,384.9067	0.3717	0.0000	8,394.2001

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,544.40	1,678.82	1421.42	3,570,732	3,570,732
Apartments Low Rise	1,890.00	2,054.50	1739.50	4,369,777	4,369,777
Apartments Mid Rise	1,375.50	1,319.50	1211.00	3,104,112	3,104,112
Apartments Mid Rise	1,858.89	1,783.21	1636.58	4,194,986	4,194,986
Apartments Mid Rise	1,206.51	1,157.39	1062.22	2,722,750	2,722,750
City Park	56.70	682.50	502.20	447,770	447,770
City Park	5.16	62.11	45.70	40,747	40,747
Convenience Market (24 Hour)	0.00	0.00	0.00		
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Single Family Housing	1,893.34	1,970.06	1715.24	4,339,422	4,339,422
Unenclosed Parking Structure	202.00	202.00	202.00	153,839	153,839
Total	10,954.90	11,933.49	10,178.46	24,683,392	24,683,392

4.3 Trip Type Information

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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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Unenclosed Parking Structure	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Apartments Mid Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
City Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Convenience Market (24 Hour)	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Quality Restaurant	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Regional Shopping Center	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Single Family Housing	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Unenclosed Parking Structure	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843

5.0 Energy Detail

Historical Energy Use: N

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	718.2977	718.2977	0.1164	0.0141	725.4101
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	718.2977	718.2977	0.1164	0.0141	725.4101
NaturalGas Mitigated	0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	1,507.9783	1,507.9783	0.0289	0.0277	1,516.9395
NaturalGas Unmitigated	0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	1,507.9783	1,507.9783	0.0289	0.0277	1,516.9395

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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					
Apartments Low Rise	4.18628e+006	0.0226	0.1929	0.0821	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.3958	223.3958	4.2800e-003	4.1000e-003	224.7233
Apartments Low Rise	5.12307e+006	0.0276	0.2361	0.1005	1.5100e-003		0.0191	0.0191		0.0191	0.0191	0.0000	273.3865	273.3865	5.2400e-003	5.0100e-003	275.0111
Apartments Mid Rise	2.0357e+006	0.0110	0.0938	0.0399	6.0000e-004		7.5800e-003	7.5800e-003		7.5800e-003	7.5800e-003	0.0000	108.6328	108.6328	2.0800e-003	1.9900e-003	109.2783
Apartments Mid Rise	2.32083e+006	0.0125	0.1069	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003	0.0000	123.8485	123.8485	2.3700e-003	2.2700e-003	124.5844
Apartments Mid Rise	3.13644e+006	0.0169	0.1445	0.0615	9.2000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	167.3724	167.3724	3.2100e-003	3.0700e-003	168.3670
City Park	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
Convenience Market (24 Hour)	30000	1.6000e-004	1.4700e-003	1.2400e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6009	1.6009	3.0000e-005	3.0000e-005	1.6104
Quality Restaurant	1.693e+006	0.0183	0.1660	0.1394	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	180.6899	180.6899	3.4600e-003	3.3100e-003	181.7636
Regional Shopping Center	54800	5.9000e-004	5.3700e-003	4.5100e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8487	5.8487	1.1000e-004	1.1000e-004	5.8834
Single Family Housing	7.93052e+006	0.0428	0.3654	0.1555	2.3300e-003		0.0296	0.0296		0.0296	0.0296	0.0000	423.2030	423.2030	8.1100e-003	7.7600e-003	425.7179
Unenclosed Parking Structure	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		0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	1,507.9783	1,507.9783	0.0289	0.0277	1,516.9395

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas 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					
Apartments Low Rise	4.18628e+006	0.0226	0.1929	0.0821	1.2300e-003		0.0156	0.0156		0.0156	0.0156	0.0000	223.3958	223.3958	4.2800e-003	4.1000e-003	224.7233
Apartments Low Rise	5.12307e+006	0.0276	0.2361	0.1005	1.5100e-003		0.0191	0.0191		0.0191	0.0191	0.0000	273.3865	273.3865	5.2400e-003	5.0100e-003	275.0111
Apartments Mid Rise	2.0357e+006	0.0110	0.0938	0.0399	6.0000e-004		7.5800e-003	7.5800e-003		7.5800e-003	7.5800e-003	0.0000	108.6328	108.6328	2.0800e-003	1.9900e-003	109.2783
Apartments Mid Rise	2.32083e+006	0.0125	0.1069	0.0455	6.8000e-004		8.6500e-003	8.6500e-003		8.6500e-003	8.6500e-003	0.0000	123.8485	123.8485	2.3700e-003	2.2700e-003	124.5844
Apartments Mid Rise	3.13644e+006	0.0169	0.1445	0.0615	9.2000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	167.3724	167.3724	3.2100e-003	3.0700e-003	168.3670
City Park	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
Convenience Market (24 Hour)	30000	1.6000e-004	1.4700e-003	1.2400e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6009	1.6009	3.0000e-005	3.0000e-005	1.6104
Quality Restaurant	1.693e+006	0.0183	0.1660	0.1394	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	180.6899	180.6899	3.4600e-003	3.3100e-003	181.7636
Regional Shopping Center	54800	5.9000e-004	5.3700e-003	4.5100e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8487	5.8487	1.1000e-004	1.1000e-004	5.8834
Single Family Housing	7.93052e+006	0.0428	0.3654	0.1555	2.3300e-003		0.0296	0.0296		0.0296	0.0296	0.0000	423.2030	423.2030	8.1100e-003	7.7600e-003	425.7179
Unenclosed Parking Structure	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		0.1524	1.3125	0.6301	8.3100e-003		0.1053	0.1053		0.1053	0.1053	0.0000	1,507.9783	1,507.9783	0.0289	0.0277	1,516.9395

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	408960	37.7866	6.1200e-003	7.4000e-004	38.1607
Apartments Low Rise	500476	46.2423	7.4900e-003	9.1000e-004	46.7002
Apartments Mid Rise	1.40606e+006	129.9151	0.0211	2.5500e-003	131.2015
Apartments Mid Rise	1.603e+006	148.1117	0.0240	2.9100e-003	149.5783
Apartments Mid Rise	2.16634e+006	200.1624	0.0324	3.9300e-003	202.1443
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	60700	5.6085	9.1000e-004	1.1000e-004	5.6640
Quality Restaurant	294800	54.4771	8.8300e-003	1.0700e-003	55.0166
Regional Shopping Center	109300	20.1979	3.2700e-003	4.0000e-004	20.3979
Single Family Housing	774732	71.5828	0.0116	1.4100e-003	72.2916
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		718.2977	0.1164	0.0141	725.4101

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	408960	37.7866	6.1200e-003	7.4000e-004	38.1607
Apartments Low Rise	500476	46.2423	7.4900e-003	9.1000e-004	46.7002
Apartments Mid Rise	1.40606e+006	129.9151	0.0211	2.5500e-003	131.2015
Apartments Mid Rise	1.603e+006	148.1117	0.0240	2.9100e-003	149.5783
Apartments Mid Rise	2.16634e+006	200.1624	0.0324	3.9300e-003	202.1443
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	60700	5.6085	9.1000e-004	1.1000e-004	5.6640
Quality Restaurant	294800	54.4771	8.8300e-003	1.0700e-003	55.0166
Regional Shopping Center	109300	20.1979	3.2700e-003	4.0000e-004	20.3979
Single Family Housing	774732	71.5828	0.0116	1.4100e-003	72.2916
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		718.2977	0.1164	0.0141	725.4101

6.0 Area Detail

6.1 Mitigation Measures Area

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa 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	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Unmitigated	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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	1.6146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa 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	1.6146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.5340					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	8.1638	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

7.0 Water Detail

7.1 Mitigation Measures Water

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	142.6839	4.6050	0.1103	290.6747
Unmitigated	142.6839	4.6050	0.1103	290.6747

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	41.438 / 26.1239	42.3118	1.3550	0.0325	85.8580
Apartments Mid Rise	73.624 / 46.4152	75.1767	2.4074	0.0577	152.5464
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.226996	0.3761	0.0121	2.9000e-004	0.7653
Quality Restaurant	6.07067 / 0.38749	5.0863	0.1983	4.7300e-003	11.4549
Regional Shopping Center	1.48145 / 0.907986	1.5043	0.0484	1.1600e-003	3.0610
Single Family Housing	17.8522 / 11.2546	18.2287	0.5838	0.0140	36.9891
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		142.6838	4.6050	0.1103	290.6747

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	41.438 / 26.1239	42.3118	1.3550	0.0325	85.8580
Apartments Mid Rise	73.624 / 46.4152	75.1767	2.4074	0.0577	152.5464
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.226996	0.3761	0.0121	2.9000e-004	0.7653
Quality Restaurant	6.07067 / 0.38749	5.0863	0.1983	4.7300e-003	11.4549
Regional Shopping Center	1.48145 / 0.907986	1.5043	0.0484	1.1600e-003	3.0610
Single Family Housing	17.8522 / 11.2546	18.2287	0.5838	0.0140	36.9891
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		142.6838	4.6050	0.1103	290.6747

8.0 Waste Detail

8.1 Mitigation Measures Waste

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	935.4514	55.2836	0.0000	2,317.541 2
Unmitigated	935.4514	55.2836	0.0000	2,317.541 2

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	2522	511.9432	30.2550	0.0000	1,268.3176
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		935.4514	55.2836	0.0000	2,317.5412

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	2522	511.9432	30.2550	0.0000	1,268.3176
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		935.4514	55.2836	0.0000	2,317.5412

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Point Molate - Residential Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

**Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	354.57	1000sqft	4.27	354,570.00	0
Office Park	230.00	1000sqft	2.77	230,000.00	0
Unenclosed Parking Structure	100.00	Space	0.00	40,000.00	0
City Park	30.00	Acre	30.00	1,306,800.00	0
City Park	2.73	Acre	2.73	118,918.80	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Apartments Low Rise	336.00	Dwelling Unit	11.03	336,000.00	961
Apartments Low Rise	300.00	Dwelling Unit	9.85	300,000.00	858
Apartments Mid Rise	350.00	Dwelling Unit	4.83	350,000.00	1001
Single Family Housing	274.00	Dwelling Unit	46.74	493,200.00	784
Convenience Market (24 Hour)	5.00	1000sqft	0.00	5,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year		2024	
Utility Company	Pacific Gas & Electric Company				

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CO2 Intensity (lb/MW hr)	203.7	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project operational year = 2024. Updated electricity emission factors to incorporate RPS for 2024.

Land Use - CalEEMod acreage scaled to match project acreage of 80 acres for Residential, office, retail and restaurant.

Construction Phase - Construction duration is from 2/1/2021 to 11/30/2028 based on Suncal schedule. Total construction days match inputs provided by AES. Exact start and end dates are defined by CalEEMod and won't exactly match AES/SunCal inputs.

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment -

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment -

Trips and VMT - CalEEMod default trip rates

Demolition - Input provided by AES/developer.

Grading - Total soil quantity exported is 355,000 cu yd. Grading area for bay trail development is 2.73 acres. Grading area for project is 90 acres.

Vehicle Trips - Trip rates obtained from Traffic Impact Analysis Memo

Vehicle Emission Factors - EMFAC 2017 Emission Factors. See Air Quality Appendix Table A12 for EMFAC2017 inputs.

Road Dust - Updated silt loading factor is specific to Contra Costa county. See Air Quality Appendix Table EF2 for details.

Consumer Products - Consumer Product emission factors are updated to reflect statewide 2017 factors. See Air Quality Appendix Table A13 for further details.

Landscape Equipment - Total landscaping days set to zero

Energy Use - See Air Quality Appendix Table A15 for details on updated energy intensity values.

Solid Waste - See Air Quality Appendix Table A16 for details on updated solid waste generation rates.

Area Mitigation - Assuming "super-compliant" VOC paint for indoor and outdoor coatings - EFs from SCAQMD Rule 1113.

Energy Mitigation - Applying energy efficient appliances to residential units and restaurant.

Water Mitigation - Applying low-flow faucets, toilets and showers for indoor water use, with default reduction percentages.

Waste Mitigation - Applying 50% solid waste reduction measure.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency generators evaluated outside of CalEEMod.

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Table Name	Column Name	Default Value	New Value
tblApplianceMitigation	PercentImprovement	15.00	30.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	998,460.00	1,025,460.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,995,380.00	3,076,380.00
tblAreaCoating	Area_Residential_Exterior	998460	1025460
tblAreaCoating	Area_Residential_Interior	2995380	3076380
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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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	220.00	110.00
tblConstructionPhase	NumDays	3,100.00	1,550.00
tblConstructionPhase	NumDays	200.00	78.00
tblConstructionPhase	NumDays	310.00	261.00
tblConstructionPhase	NumDays	310.00	262.00
tblConstructionPhase	NumDays	220.00	125.00
tblConstructionPhase	NumDays	120.00	89.00
tblConsumerProducts	ROG_EF	2.14E-05	1.55E-05
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	741.44	667.30
tblEnergyUse	LightingElect	4.88	5.88
tblEnergyUse	LightingElect	3.47	3.77
tblEnergyUse	LightingElect	5.34	5.61
tblEnergyUse	LightingElect	4.88	5.12
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	1.75	1.14

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tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	1.17	1.00
tblEnergyUse	NT24NG	128.02	128.00
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	T24E	233.06	3,542.93
tblEnergyUse	T24E	426.45	3,115.38
tblEnergyUse	T24E	2.24	3.83
tblEnergyUse	T24E	4.27	5.85
tblEnergyUse	T24E	2.67	5.26
tblEnergyUse	T24E	2.24	3.38
tblEnergyUse	T24E	217.68	7,167.49
tblEnergyUse	T24NG	17,734.50	1,466.66
tblEnergyUse	T24NG	6,115.43	505.70
tblEnergyUse	T24NG	3.90	0.59
tblEnergyUse	T24NG	17.44	0.58
tblEnergyUse	T24NG	39.90	30.50
tblEnergyUse	T24NG	3.90	0.53
tblEnergyUse	T24NG	39,708.76	2,340.63
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00

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tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblGrading	AcresOfGrading	1,696.50	90.00
tblGrading	AcresOfGrading	622.25	2.73
tblGrading	MaterialExported	0.00	344,550.00
tblGrading	MaterialExported	0.00	10,450.00
tblLandUse	LotAcreage	5.28	2.77
tblLandUse	LotAcreage	8.14	4.27

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tblLandUse	LotAcreage	0.90	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	18.75	9.85
tblLandUse	LotAcreage	21.00	11.03
tblLandUse	LotAcreage	9.21	4.83
tblLandUse	LotAcreage	88.96	46.74
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblOffRoadEquipment	HorsePower	402.00	367.00
tblOffRoadEquipment	LoadFactor	0.38	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	641.35	203.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblRoadDust	RoadSiltLoading	0.1	0.047
tblSolidWaste	SolidWasteGenerationRate	292.56	1,420.00
tblSolidWaste	SolidWasteGenerationRate	161.00	781.00
tblSolidWaste	SolidWasteGenerationRate	543.65	533.00

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tblSolidWaste	SolidWasteGenerationRate	21.00	18.25
tblSolidWaste	SolidWasteGenerationRate	329.28	612.00
tblTripsAndVMT	HaulingTripNumber	34,067.00	43,069.00
tblTripsAndVMT	HaulingTripNumber	1,033.00	1,306.00
tblVehicleEF	HHD	0.41	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.58	6.28
tblVehicleEF	HHD	0.84	0.40
tblVehicleEF	HHD	2.87	5.3000e-003
tblVehicleEF	HHD	4,335.05	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.83	5.34
tblVehicleEF	HHD	1.90	2.66
tblVehicleEF	HHD	19.75	2.36
tblVehicleEF	HHD	7.9210e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	7.5790e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	7.6000e-005	0.00

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tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.41	0.42
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3500e-004	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.48	0.49
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.39	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.15	6.28
tblVehicleEF	HHD	0.85	0.40
tblVehicleEF	HHD	2.61	5.3000e-003
tblVehicleEF	HHD	4,592.60	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	14.28	5.34
tblVehicleEF	HHD	1.83	2.66

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tblVehicleEF	HHD	19.74	2.36
tblVehicleEF	HHD	6.6780e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	6.3890e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.39	0.42
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3100e-004	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.45	0.49
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.3800e-004	0.00

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tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.45	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.17	6.28
tblVehicleEF	HHD	0.83	0.40
tblVehicleEF	HHD	3.11	5.3000e-003
tblVehicleEF	HHD	3,979.39	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.22	5.34
tblVehicleEF	HHD	1.93	2.66
tblVehicleEF	HHD	19.77	2.36
tblVehicleEF	HHD	9.6380e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	9.2210e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	2.1000e-005	0.00

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tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.51	0.49
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	LDA	3.2820e-003	1.8000e-003
tblVehicleEF	LDA	4.5120e-003	0.05
tblVehicleEF	LDA	0.48	0.52
tblVehicleEF	LDA	1.04	2.15
tblVehicleEF	LDA	229.87	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003

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tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.2620e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.3010e-003	2.4000e-003
tblVehicleEF	LDA	5.4600e-004	5.0000e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	3.7280e-003	1.8000e-003
tblVehicleEF	LDA	3.6390e-003	0.05
tblVehicleEF	LDA	0.58	0.52
tblVehicleEF	LDA	0.80	2.15
tblVehicleEF	LDA	251.31	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003

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tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	9.3650e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.21
tblVehicleEF	LDA	2.5170e-003	2.4000e-003
tblVehicleEF	LDA	5.4200e-004	5.0000e-004
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.23
tblVehicleEF	LDA	3.1830e-003	1.8000e-003
tblVehicleEF	LDA	5.1540e-003	0.05
tblVehicleEF	LDA	0.47	0.52
tblVehicleEF	LDA	1.24	2.15
tblVehicleEF	LDA	226.93	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02

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tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	8.0170e-003	6.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.2720e-003	2.4000e-003
tblVehicleEF	LDA	5.4900e-004	5.0000e-004
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDT1	6.8390e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.88	0.87
tblVehicleEF	LDT1	2.31	2.34
tblVehicleEF	LDT1	287.67	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.13	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003

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tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.15	0.32
tblVehicleEF	LDT1	2.8860e-003	2.8000e-003
tblVehicleEF	LDT1	7.0800e-004	6.0000e-004
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.16	0.35
tblVehicleEF	LDT1	7.6930e-003	3.8000e-003
tblVehicleEF	LDT1	8.8990e-003	0.07
tblVehicleEF	LDT1	1.05	0.87
tblVehicleEF	LDT1	1.76	2.34
tblVehicleEF	LDT1	313.61	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.11	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003

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tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.12	0.32
tblVehicleEF	LDT1	3.1480e-003	2.8000e-003
tblVehicleEF	LDT1	6.9900e-004	6.0000e-004
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.13	0.35
tblVehicleEF	LDT1	6.6770e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.87	0.87
tblVehicleEF	LDT1	2.76	2.34
tblVehicleEF	LDT1	284.11	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.10	0.07
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	0.04	0.04

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tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8500e-003	2.8000e-003
tblVehicleEF	LDT1	7.1600e-004	6.0000e-004
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT2	4.4150e-003	2.9000e-003
tblVehicleEF	LDT2	5.8360e-003	0.06
tblVehicleEF	LDT2	0.62	0.70
tblVehicleEF	LDT2	1.34	2.74
tblVehicleEF	LDT2	323.78	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.26

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tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.2420e-003	3.0000e-003
tblVehicleEF	LDT2	7.6900e-004	7.0000e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.0080e-003	2.9000e-003
tblVehicleEF	LDT2	4.7080e-003	0.06
tblVehicleEF	LDT2	0.75	0.70
tblVehicleEF	LDT2	1.03	2.74
tblVehicleEF	LDT2	353.38	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.05	0.06

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tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	3.5390e-003	3.0000e-003
tblVehicleEF	LDT2	7.6400e-004	7.0000e-004
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.32
tblVehicleEF	LDT2	4.2820e-003	2.9000e-003
tblVehicleEF	LDT2	6.6640e-003	0.06
tblVehicleEF	LDT2	0.60	0.70
tblVehicleEF	LDT2	1.58	2.74
tblVehicleEF	LDT2	319.73	307.00
tblVehicleEF	LDT2	74.71	66.18

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tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.2010e-003	3.0000e-003
tblVehicleEF	LDT2	7.7400e-004	7.0000e-004
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.99	0.77

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tblVehicleEF	LHD1	2.29	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.39	0.94
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004

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tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.01	0.77
tblVehicleEF	LHD1	2.10	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.33	0.94
tblVehicleEF	LHD1	0.87	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003

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tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.3800e-004	1.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.16	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.24	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.77
tblVehicleEF	LHD1	2.47	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98

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tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.42	0.94
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4500e-004	1.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03

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tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.0300e-003	6.9000e-003
tblVehicleEF	LHD2	5.6740e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	1.02	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.77	0.98
tblVehicleEF	LHD2	0.40	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004

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tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.1180e-003	6.9000e-003
tblVehicleEF	LHD2	5.3450e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	0.94	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.74	0.98

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tblVehicleEF	LHD2	0.38	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4200e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08

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tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	6.9590e-003	6.9000e-003
tblVehicleEF	LHD2	5.9550e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.64
tblVehicleEF	LHD2	1.09	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.78	0.98
tblVehicleEF	LHD2	0.42	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004

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tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.16	0.26
tblVehicleEF	MCY	19.70	20.00
tblVehicleEF	MCY	10.22	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003

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tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.27	2.29
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	2.1230e-003	2.1000e-003
tblVehicleEF	MCY	6.8900e-004	6.0000e-004
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.81	2.82
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.43	2.15
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.13	0.26
tblVehicleEF	MCY	18.98	20.00
tblVehicleEF	MCY	8.86	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.02	1.16
tblVehicleEF	MCY	0.29	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003

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tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.18	2.29
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.83	1.98
tblVehicleEF	MCY	2.1090e-003	2.1000e-003
tblVehicleEF	MCY	6.5400e-004	6.0000e-004
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.70	2.82
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.99	2.15
tblVehicleEF	MCY	0.47	0.34
tblVehicleEF	MCY	0.19	0.26
tblVehicleEF	MCY	21.47	20.00
tblVehicleEF	MCY	11.78	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.25	1.16
tblVehicleEF	MCY	0.35	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003

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tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.37	2.29
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.62	1.98
tblVehicleEF	MCY	2.1550e-003	2.1000e-003
tblVehicleEF	MCY	7.2600e-004	6.0000e-004
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.94	2.82
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.85	2.15
tblVehicleEF	MDV	8.6020e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.97	0.82
tblVehicleEF	MDV	2.71	3.10
tblVehicleEF	MDV	443.89	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.24	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003

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tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4430e-003	3.8000e-003
tblVehicleEF	MDV	1.0620e-003	8.0000e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	9.7400e-003	3.8000e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.18	0.82
tblVehicleEF	MDV	2.08	3.10
tblVehicleEF	MDV	483.31	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.21	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003

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tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.38
tblVehicleEF	MDV	4.8400e-003	3.8000e-003
tblVehicleEF	MDV	1.0500e-003	8.0000e-004
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.04	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.42
tblVehicleEF	MDV	8.3570e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.96	0.82
tblVehicleEF	MDV	3.22	3.10
tblVehicleEF	MDV	438.49	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	0.04	0.04

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tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.23	0.38
tblVehicleEF	MDV	4.3890e-003	3.8000e-003
tblVehicleEF	MDV	1.0710e-003	8.0000e-004
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.25	0.42
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.46	0.85
tblVehicleEF	MH	4.96	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.34	1.52
tblVehicleEF	MH	0.78	0.24

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tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.6600e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.32	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.52	0.85
tblVehicleEF	MH	4.45	1.96
tblVehicleEF	MH	1,212.36	1,512.95

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tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.26	1.52
tblVehicleEF	MH	0.72	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.27	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5800e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02

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tblVehicleEF	MH	1.41	0.85
tblVehicleEF	MH	5.39	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.38	1.52
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7400e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01

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tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.4400e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.37	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.47	1.19
tblVehicleEF	MHD	134.03	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.38	0.52
tblVehicleEF	MHD	1.11	1.47
tblVehicleEF	MHD	10.23	1.66
tblVehicleEF	MHD	1.4100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.3500e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02

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tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	1.2910e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0200e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.01	4.0000e-003
tblVehicleEF	MHD	4.5430e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.43
tblVehicleEF	MHD	0.36	0.27
tblVehicleEF	MHD	4.98	1.19
tblVehicleEF	MHD	142.13	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.40	0.52
tblVehicleEF	MHD	1.07	1.47
tblVehicleEF	MHD	10.17	1.66
tblVehicleEF	MHD	1.1900e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004

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tblVehicleEF	MHD	1.1400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	1.3670e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9400e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.3600e-003	2.1000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.94	1.19

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tblVehicleEF	MHD	123.22	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.37	0.52
tblVehicleEF	MHD	1.13	1.47
tblVehicleEF	MHD	10.28	1.66
tblVehicleEF	MHD	1.7100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.6400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	1.1890e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.05	0.02

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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.3020e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.53	0.98
tblVehicleEF	OBUS	5.50	2.88
tblVehicleEF	OBUS	71.68	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.14	0.23
tblVehicleEF	OBUS	0.75	1.13
tblVehicleEF	OBUS	2.17	0.68
tblVehicleEF	OBUS	1.3000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05

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tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.34	0.14
tblVehicleEF	OBUS	6.9600e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.37	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.5680e-003	9.0000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	4.94	2.88
tblVehicleEF	OBUS	74.94	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.15	0.23
tblVehicleEF	OBUS	0.71	1.13
tblVehicleEF	OBUS	2.10	0.68
tblVehicleEF	OBUS	1.1000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003

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tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.32	0.14
tblVehicleEF	OBUS	7.2700e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7700e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.35	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.0920e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.52	0.98

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tblVehicleEF	OBUS	5.95	2.88
tblVehicleEF	OBUS	67.19	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.13	0.23
tblVehicleEF	OBUS	0.77	1.13
tblVehicleEF	OBUS	2.23	0.68
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.36	0.14
tblVehicleEF	OBUS	6.5300e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9500e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03

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tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1030e-003	2.6000e-003
tblVehicleEF	SBUS	0.06	1.3000e-003
tblVehicleEF	SBUS	2.09	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.33	0.19
tblVehicleEF	SBUS	1,440.18	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.22	2.23
tblVehicleEF	SBUS	4.78	2.75
tblVehicleEF	SBUS	19.18	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004

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tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2700e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	8.0000e-003
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1440e-003	2.6000e-003
tblVehicleEF	SBUS	0.05	1.3000e-003
tblVehicleEF	SBUS	1.93	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	0.91	0.19
tblVehicleEF	SBUS	1,522.68	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.64	2.23
tblVehicleEF	SBUS	4.59	2.75
tblVehicleEF	SBUS	19.17	1.56

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tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	9.5970e-003	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.24	0.09
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.05	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2100e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.33	0.12
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.06	8.0000e-003
tblVehicleEF	SBUS	0.88	0.02
tblVehicleEF	SBUS	6.0730e-003	2.6000e-003

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tblVehicleEF	SBUS	0.07	1.3000e-003
tblVehicleEF	SBUS	2.33	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.66	0.19
tblVehicleEF	SBUS	1,326.25	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	12.63	2.23
tblVehicleEF	SBUS	4.86	2.75
tblVehicleEF	SBUS	19.19	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003

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tblVehicleEF	SBUS	1.3300e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	8.0000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.07	1.5000e-003
tblVehicleEF	UBUS	4.04	8.13
tblVehicleEF	UBUS	11.74	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.66	0.64
tblVehicleEF	UBUS	12.20	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004

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tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.98	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7290e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.65	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	1.08	5.8000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.06	1.5000e-003
tblVehicleEF	UBUS	4.11	8.13
tblVehicleEF	UBUS	9.17	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.41	0.64
tblVehicleEF	UBUS	12.07	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00

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tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.39	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.85	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.6840e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.66	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.93	5.8000e-003
tblVehicleEF	UBUS	0.23	1.10
tblVehicleEF	UBUS	0.08	1.5000e-003
tblVehicleEF	UBUS	4.00	8.13
tblVehicleEF	UBUS	14.08	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.77	0.64
tblVehicleEF	UBUS	12.31	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03

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tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.10	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7700e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.64	1.12
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.20	5.8000e-003
tblVehicleTrips	CC_TTP	0.00	80.10
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	0.90
tblVehicleTrips	DV_TP	18.00	40.00
tblVehicleTrips	DV_TP	35.00	40.00
tblVehicleTrips	DV_TP	0.00	15.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	0.00	61.00
tblVehicleTrips	PR_TP	38.00	60.00

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tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	PR_TP	0.00	24.00
tblVehicleTrips	ST_TR	7.16	5.87
tblVehicleTrips	ST_TR	6.39	3.77
tblVehicleTrips	ST_TR	863.10	0.00
tblVehicleTrips	ST_TR	1.64	0.85
tblVehicleTrips	ST_TR	94.36	24.19
tblVehicleTrips	ST_TR	49.97	26.98
tblVehicleTrips	ST_TR	9.91	7.19
tblVehicleTrips	ST_TR	0.00	2.02
tblVehicleTrips	SU_TR	6.07	4.97
tblVehicleTrips	SU_TR	5.86	3.46
tblVehicleTrips	SU_TR	758.45	0.00
tblVehicleTrips	SU_TR	0.76	0.39
tblVehicleTrips	SU_TR	72.16	18.50
tblVehicleTrips	SU_TR	25.24	13.63
tblVehicleTrips	SU_TR	8.62	6.26
tblVehicleTrips	SU_TR	0.00	2.02
tblVehicleTrips	WD_TR	6.59	5.40
tblVehicleTrips	WD_TR	6.65	3.93
tblVehicleTrips	WD_TR	737.99	0.00
tblVehicleTrips	WD_TR	11.42	5.89
tblVehicleTrips	WD_TR	89.95	23.06
tblVehicleTrips	WD_TR	42.70	23.06
tblVehicleTrips	WD_TR	9.52	6.91
tblVehicleTrips	WD_TR	0.00	2.02
tblWater	IndoorWaterUseRate	41,437,960.30	44,044,121.32

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tblWater	OutdoorWaterUseRate	26,123,931.49	27,766,946.05
tblWater	OutdoorWaterUseRate	38,997,184.57	0.00
tblWoodstoves	NumberCatalytic	12.72	0.00
tblWoodstoves	NumberCatalytic	7.00	0.00
tblWoodstoves	NumberCatalytic	10.96	0.00
tblWoodstoves	NumberNoncatalytic	12.72	0.00
tblWoodstoves	NumberNoncatalytic	7.00	0.00
tblWoodstoves	NumberNoncatalytic	10.96	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

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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					
2021	1.2161	16.2072	8.5517	0.0283	1.8482	0.5252	2.3734	0.8787	0.4842	1.3629	0.0000	2,597.7828	2,597.7828	0.4832	0.0000	2,609.8618
2022	0.7740	8.8620	6.2797	0.0184	1.1261	0.3088	1.4349	0.4836	0.2844	0.7680	0.0000	1,658.7579	1,658.7579	0.3860	0.0000	1,668.4089
2023	12.0286	8.0757	9.0559	0.0378	2.3097	0.1613	2.4710	0.6509	0.1525	0.8034	0.0000	3,476.7066	3,476.7066	0.2045	0.0000	3,481.8195
2024	3.9457	6.8111	7.4952	0.0343	2.1344	0.1021	2.2365	0.5772	0.0963	0.6735	0.0000	3,171.5239	3,171.5239	0.1542	0.0000	3,175.3781
2025	0.8147	6.4407	6.8851	0.0329	2.0953	0.0843	2.1796	0.5668	0.0791	0.6459	0.0000	3,049.8291	3,049.8291	0.1476	0.0000	3,053.5197
2026	0.7839	6.3519	6.6073	0.0323	2.0953	0.0838	2.1792	0.5668	0.0787	0.6455	0.0000	2,995.1442	2,995.1442	0.1443	0.0000	2,998.7513
2027	0.7550	6.2653	6.3655	0.0318	2.0953	0.0832	2.1785	0.5668	0.0782	0.6449	0.0000	2,946.3349	2,946.3349	0.1413	0.0000	2,949.8664
2028	0.6650	5.6699	5.6395	0.0287	1.9187	0.0755	1.9942	0.5190	0.0709	0.5899	0.0000	2,659.1414	2,659.1414	0.1269	0.0000	2,662.3144
Maximum	12.0286	16.2072	9.0559	0.0378	2.3097	0.5252	2.4710	0.8787	0.4842	1.3629	0.0000	3,476.7066	3,476.7066	0.4832	0.0000	3,481.8195

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2.1 Overall Construction

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					
2021	0.4376	6.6648	8.7730	0.0283	1.0400	0.0969	1.1369	0.4514	0.0913	0.5428	0.0000	2,597.781 2	2,597.781 2	0.4832	0.0000	2,609.860 2
2022	0.3618	3.8954	7.0112	0.0184	0.7210	0.1010	0.8220	0.2729	0.0943	0.3672	0.0000	1,658.756 5	1,658.756 5	0.3860	0.0000	1,668.407 5
2023	11.7640	5.5514	9.3498	0.0378	2.2555	0.0305	2.2860	0.6215	0.0290	0.6504	0.0000	3,476.706 0	3,476.706 0	0.2045	0.0000	3,481.818 9
2024	3.7814	5.2381	7.6667	0.0343	2.1344	0.0217	2.1560	0.5772	0.0206	0.5978	0.0000	3,171.523 6	3,171.523 6	0.1542	0.0000	3,175.377 7
2025	0.6791	5.1051	7.0646	0.0329	2.0953	0.0207	2.1160	0.5668	0.0197	0.5864	0.0000	3,049.828 8	3,049.828 8	0.1476	0.0000	3,053.519 4
2026	0.6483	5.0163	6.7868	0.0323	2.0953	0.0203	2.1156	0.5668	0.0193	0.5861	0.0000	2,995.143 8	2,995.143 8	0.1443	0.0000	2,998.751 0
2027	0.6193	4.9296	6.5450	0.0318	2.0953	0.0197	2.1150	0.5668	0.0187	0.5855	0.0000	2,946.334 5	2,946.334 5	0.1413	0.0000	2,949.866 0
2028	0.5408	4.4468	5.8039	0.0287	1.9187	0.0173	1.9360	0.5190	0.0165	0.5355	0.0000	2,659.141 1	2,659.141 1	0.1269	0.0000	2,662.314 0
Maximum	11.7640	6.6648	9.3498	0.0378	2.2555	0.1010	2.2860	0.6215	0.0943	0.6504	0.0000	3,476.706 0	3,476.706 0	0.4832	0.0000	3,481.818 9

	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	10.25	36.85	-3.73	0.00	8.11	76.97	13.87	13.88	76.64	27.43	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	2-1-2021	4-30-2021	3.6175	0.8996
2	5-1-2021	7-31-2021	5.8880	2.3394

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3	8-1-2021	10-31-2021	4.6736	2.2709
4	11-1-2021	1-31-2022	5.0925	2.4874
5	2-1-2022	4-30-2022	4.8333	2.2298
6	5-1-2022	7-31-2022	1.6509	0.6295
7	8-1-2022	10-31-2022	1.4097	0.3883
8	11-1-2022	1-31-2023	2.2663	1.0905
9	2-1-2023	4-30-2023	2.3086	1.5996
10	5-1-2023	7-31-2023	1.9569	1.5168
11	8-1-2023	10-31-2023	7.8004	7.1274
12	11-1-2023	1-31-2024	10.7532	9.9818
13	2-1-2024	4-30-2024	1.9604	1.5598
14	5-1-2024	7-31-2024	1.8879	1.4820
15	8-1-2024	10-31-2024	1.8973	1.4914
16	11-1-2024	1-31-2025	1.8924	1.4984
17	2-1-2025	4-30-2025	1.7775	1.4191
18	5-1-2025	7-31-2025	1.8201	1.4497
19	8-1-2025	10-31-2025	1.8289	1.4585
20	11-1-2025	1-31-2026	1.8356	1.4652
21	2-1-2026	4-30-2026	1.7477	1.3893
22	5-1-2026	7-31-2026	1.7903	1.4198
23	8-1-2026	10-31-2026	1.7986	1.4281
24	11-1-2026	1-31-2027	1.8047	1.4342
25	2-1-2027	4-30-2027	1.7189	1.3605
26	5-1-2027	7-31-2027	1.7615	1.3910
27	8-1-2027	10-31-2027	1.7693	1.3988
28	11-1-2027	1-31-2028	1.7756	1.4051
29	2-1-2028	4-30-2028	1.7124	1.3500

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30	5-1-2028	7-31-2028	1.7359	1.3655
31	8-1-2028	9-30-2028	1.1510	0.9054
		Highest	10.7532	9.9818

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	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.0451	0.3971	0.2529	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	1,926.9801	1,926.9801	0.2485	0.0373	1,944.2955
Mobile	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.7522	8,210.7522	0.3601	0.0000	8,219.7552
Waste						0.0000	0.0000		0.0000	0.0000	690.2383	0.0000	690.2383	40.7919	0.0000	1,710.0362
Water						0.0000	0.0000		0.0000	0.0000	62.3469	136.6060	198.9529	6.4258	0.1539	405.4548
Total	10.2714	6.4830	30.0025	0.0922	5.1752	0.1117	5.2869	1.4699	0.1070	1.5769	752.5852	10,424.1454	11,176.7306	47.8292	0.1939	12,430.2391

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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	6.1214	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.0451	0.3971	0.2529	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	1,920.8527	1,920.8527	0.2475	0.0371	1,938.1075
Mobile	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.7522	8,210.7522	0.3601	0.0000	8,219.7552
Waste						0.0000	0.0000		0.0000	0.0000	345.1192	0.0000	345.1192	20.3960	0.0000	855.0181
Water						0.0000	0.0000		0.0000	0.0000	49.8775	101.6140	151.4916	5.1394	0.1230	316.6171
Total	8.9979	6.4830	30.0025	0.0922	5.1752	0.1117	5.2869	1.4699	0.1070	1.5769	394.9967	10,383.0261	10,778.0228	26.1458	0.1629	11,480.1953

	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	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.51	0.39	3.57	45.34	16.01	7.64

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2021	5/19/2021	5	78	
2	Site Preparation	Site Preparation	3/1/2021	7/1/2021	5	89	
3	Grading	Grading	4/1/2021	3/31/2022	5	261	
4	Paving	Paving	1/1/2022	6/24/2022	5	125	
5	Bay Trail Grading	Grading	3/1/2022	3/1/2023	5	262	
6	Building Construction	Building Construction	12/23/2022	11/30/2028	5	1550	
7	Architectural Coating	Architectural Coating	9/1/2023	2/1/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 3,076,380; Residential Outdoor: 1,025,460; Non-Residential Indoor: 944,355; Non-Residential Outdoor: 314,785; Striped Parking Area: 2,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	6	8.00	367	0.48

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Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Bay Trail Grading	Excavators	1	6.00	158	0.38
Bay Trail Grading	Graders	1	6.00	187	0.41
Bay Trail Grading	Off-Highway Trucks	1	8.00	367	0.48
Bay Trail Grading	Paving Equipment	1	8.00	132	0.36
Bay Trail Grading	Plate Compactors	1	8.00	8	0.43
Bay Trail Grading	Rubber Tired Dozers	1	6.00	247	0.40
Bay Trail Grading	Scrapers	2	8.00	367	0.48
Bay Trail Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	8	6.00	78	0.48

Trips and VMT

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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
Demolition	6	15.00	0.00	227.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	30.00	0.00	43,069.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Bay Trail Grading	9	23.00	0.00	1,306.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,628.00	478.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	326.00	0.00	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

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

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					0.0246	0.0000	0.0246	3.7300e-003	0.0000	3.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1234	1.2262	0.8410	1.5100e-003		0.0605	0.0605		0.0562	0.0562	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361
Total	0.1234	1.2262	0.8410	1.5100e-003	0.0246	0.0605	0.0851	3.7300e-003	0.0562	0.0599	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

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					0.0111	0.0000	0.0111	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.0781	0.9079	1.5100e-003		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360
Total	0.0180	0.0781	0.9079	1.5100e-003	0.0111	2.4000e-003	0.0135	1.6800e-003	2.4000e-003	4.0800e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

3.3 Site Preparation - 2021

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					0.8040	0.0000	0.8040	0.4419	0.0000	0.4419	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1730	1.8021	0.9414	1.6900e-003		0.0910	0.0910		0.0837	0.0837	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920
Total	0.1730	1.8021	0.9414	1.6900e-003	0.8040	0.0910	0.8949	0.4419	0.0837	0.5256	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

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					0.3618	0.0000	0.3618	0.1989	0.0000	0.1989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.0898	0.9287	1.6900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918
Total	0.0207	0.0898	0.9287	1.6900e-003	0.3618	2.7600e-003	0.3645	0.1989	2.7600e-003	0.2016	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

3.4 Grading - 2021

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					0.6409	0.0000	0.6409	0.3312	0.0000	0.3312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7790	8.7873	5.8014	0.0121		0.3596	0.3596		0.3308	0.3308	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347
Total	0.7790	8.7873	5.8014	0.0121	0.6409	0.3596	1.0005	0.3312	0.3308	0.6621	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

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					0.2884	0.0000	0.2884	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2582	2.1053	5.9685	0.0121		0.0776	0.0776		0.0727	0.0727	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334
Total	0.2582	2.1053	5.9685	0.0121	0.2884	0.0776	0.3660	0.1490	0.0727	0.2218	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

3.4 Grading - 2022

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					0.2404	0.0000	0.2404	0.1111	0.0000	0.1111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2209	2.3878	1.7454	3.9300e-003		0.0970	0.0970		0.0892	0.0892	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322
Total	0.2209	2.3878	1.7454	3.9300e-003	0.2404	0.0970	0.3374	0.1111	0.0892	0.2003	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

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					0.1082	0.0000	0.1082	0.0500	0.0000	0.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0786	0.5995	1.9088	3.9300e-003		0.0220	0.0220		0.0207	0.0207	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318
Total	0.0786	0.5995	1.9088	3.9300e-003	0.1082	0.0220	0.1302	0.0500	0.0207	0.0706	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

3.5 Paving - 2022

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

3.6 Bay Trail Grading - 2022

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					0.4960	0.0000	0.4960	0.2720	0.0000	0.2720	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4053	4.1437	3.0396	7.4600e-003		0.1689	0.1689		0.1555	0.1555	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293
Total	0.4053	4.1437	3.0396	7.4600e-003	0.4960	0.1689	0.6650	0.2720	0.1555	0.4275	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

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					0.2232	0.0000	0.2232	0.1224	0.0000	0.1224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1395	1.0055	3.6043	7.4600e-003		0.0384	0.0384		0.0361	0.0361	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286
Total	0.1395	1.0055	3.6043	7.4600e-003	0.2232	0.0384	0.2616	0.1224	0.0361	0.1585	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

3.6 Bay Trail Grading - 2023

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					0.0986	0.0000	0.0986	0.0535	0.0000	0.0535	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.7283	0.5768	1.4700e-003		0.0293	0.0293		0.0270	0.0270	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717
Total	0.0740	0.7283	0.5768	1.4700e-003	0.0986	0.0293	0.1279	0.0535	0.0270	0.0805	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

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					0.0444	0.0000	0.0444	0.0241	0.0000	0.0241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.1874	0.7054	1.4700e-003		7.1300e-003	7.1300e-003		6.7200e-003	6.7200e-003	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716
Total	0.0269	0.1874	0.7054	1.4700e-003	0.0444	7.1300e-003	0.0515	0.0241	6.7200e-003	0.0308	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

3.7 Building Construction - 2022

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	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.3800e-003	0.1400	0.0353	3.8000e-004	9.4300e-003	2.9000e-004	9.7200e-003	2.7300e-003	2.8000e-004	3.0000e-003	0.0000	36.7183	36.7183	1.6300e-003	0.0000	36.7591
Worker	0.0141	9.4800e-003	0.1028	3.5000e-004	0.0387	2.5000e-004	0.0390	0.0103	2.3000e-004	0.0105	0.0000	31.5607	31.5607	6.7000e-004	0.0000	31.5774
Total	0.0184	0.1495	0.1381	7.3000e-004	0.0482	5.4000e-004	0.0487	0.0130	5.1000e-004	0.0135	0.0000	68.2790	68.2790	2.3000e-003	0.0000	68.3365

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	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.3800e-003	0.1400	0.0353	3.8000e-004	9.4300e-003	2.9000e-004	9.7200e-003	2.7300e-003	2.8000e-004	3.0000e-003	0.0000	36.7183	36.7183	1.6300e-003	0.0000	36.7591
Worker	0.0141	9.4800e-003	0.1028	3.5000e-004	0.0387	2.5000e-004	0.0390	0.0103	2.3000e-004	0.0105	0.0000	31.5607	31.5607	6.7000e-004	0.0000	31.5774
Total	0.0184	0.1495	0.1381	7.3000e-004	0.0482	5.4000e-004	0.0487	0.0130	5.1000e-004	0.0135	0.0000	68.2790	68.2790	2.3000e-003	0.0000	68.3365

3.7 Building Construction - 2023

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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3.7 Building Construction - 2023

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	0.1431	4.6177	1.3639	0.0162	0.4087	5.5100e-003	0.4142	0.1182	5.2700e-003	0.1234	0.0000	1,546.8359	1,546.8359	0.0582	0.0000	1,548.2905
Worker	0.5676	0.3688	4.0946	0.0145	1.6786	0.0104	1.6890	0.4464	9.6000e-003	0.4560	0.0000	1,314.5008	1,314.5008	0.0259	0.0000	1,315.1489
Total	0.7107	4.9865	5.4585	0.0307	2.0873	0.0159	2.1032	0.5646	0.0149	0.5795	0.0000	2,861.3367	2,861.3367	0.0841	0.0000	2,863.4395

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	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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3.7 Building Construction - 2023

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	0.1431	4.6177	1.3639	0.0162	0.4087	5.5100e-003	0.4142	0.1182	5.2700e-003	0.1234	0.0000	1,546.8359	1,546.8359	0.0582	0.0000	1,548.2905
Worker	0.5676	0.3688	4.0946	0.0145	1.6786	0.0104	1.6890	0.4464	9.6000e-003	0.4560	0.0000	1,314.5008	1,314.5008	0.0259	0.0000	1,315.1489
Total	0.7107	4.9865	5.4585	0.0307	2.0873	0.0159	2.1032	0.5646	0.0149	0.5795	0.0000	2,861.3367	2,861.3367	0.0841	0.0000	2,863.4395

3.7 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

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3.7 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	0.1393	4.5917	1.3179	0.0162	0.4119	5.4400e-003	0.4173	0.1191	5.2000e-003	0.1243	0.0000	1,548.5528	1,548.5528	0.0571	0.0000	1,549.9791
Worker	0.5352	0.3351	3.8156	0.0141	1.6915	0.0103	1.7018	0.4499	9.4800e-003	0.4593	0.0000	1,271.4159	1,271.4159	0.0235	0.0000	1,272.0029
Total	0.6744	4.9268	5.1336	0.0302	2.1033	0.0157	2.1191	0.5689	0.0147	0.5836	0.0000	2,819.9687	2,819.9687	0.0805	0.0000	2,821.9820

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	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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3.7 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	0.1393	4.5917	1.3179	0.0162	0.4119	5.4400e-003	0.4173	0.1191	5.2000e-003	0.1243	0.0000	1,548.5528	1,548.5528	0.0571	0.0000	1,549.9791
Worker	0.5352	0.3351	3.8156	0.0141	1.6915	0.0103	1.7018	0.4499	9.4800e-003	0.4593	0.0000	1,271.4159	1,271.4159	0.0235	0.0000	1,272.0029
Total	0.6744	4.9268	5.1336	0.0302	2.1033	0.0157	2.1191	0.5689	0.0147	0.5836	0.0000	2,819.9687	2,819.9687	0.0805	0.0000	2,821.9820

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1346	4.5106	1.2702	0.0160	0.4103	5.3000e-003	0.4156	0.1186	5.0600e-003	0.1237	0.0000	1,532.8798	1,532.8798	0.0553	0.0000	1,534.2628
Worker	0.5017	0.3029	3.5158	0.0134	1.6850	0.0101	1.6951	0.4481	9.3000e-003	0.4574	0.0000	1,214.2945	1,214.2945	0.0212	0.0000	1,214.8235
Total	0.6363	4.8135	4.7860	0.0294	2.0953	0.0154	2.1107	0.5668	0.0144	0.5811	0.0000	2,747.1742	2,747.1742	0.0765	0.0000	2,749.0862

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1346	4.5106	1.2702	0.0160	0.4103	5.3000e-003	0.4156	0.1186	5.0600e-003	0.1237	0.0000	1,532.8798	1,532.8798	0.0553	0.0000	1,534.2628
Worker	0.5017	0.3029	3.5158	0.0134	1.6850	0.0101	1.6951	0.4481	9.3000e-003	0.4574	0.0000	1,214.2945	1,214.2945	0.0212	0.0000	1,214.8235
Total	0.6363	4.8135	4.7860	0.0294	2.0953	0.0154	2.1107	0.5668	0.0144	0.5811	0.0000	2,747.1742	2,747.1742	0.0765	0.0000	2,749.0862

3.7 Building Construction - 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					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 Building Construction - 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	0.0000	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	0.1310	4.4479	1.2382	0.0159	0.4103	5.1700e-003	0.4155	0.1186	4.9400e-003	0.1236	0.0000	1,523.9971	1,523.9971	0.0539	0.0000	1,525.3448
Worker	0.4745	0.2767	3.2700	0.0129	1.6850	9.8100e-003	1.6948	0.4481	9.0300e-003	0.4572	0.0000	1,168.4922	1,168.4922	0.0192	0.0000	1,168.9730
Total	0.6055	4.7246	4.5082	0.0288	2.0953	0.0150	2.1103	0.5668	0.0140	0.5807	0.0000	2,692.4893	2,692.4893	0.0731	0.0000	2,694.3178

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 Building Construction - 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	0.0000	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	0.1310	4.4479	1.2382	0.0159	0.4103	5.1700e-003	0.4155	0.1186	4.9400e-003	0.1236	0.0000	1,523.9971	1,523.9971	0.0539	0.0000	1,525.3448
Worker	0.4745	0.2767	3.2700	0.0129	1.6850	9.8100e-003	1.6948	0.4481	9.0300e-003	0.4572	0.0000	1,168.4922	1,168.4922	0.0192	0.0000	1,168.9730
Total	0.6055	4.7246	4.5082	0.0288	2.0953	0.0150	2.1103	0.5668	0.0140	0.5807	0.0000	2,692.4893	2,692.4893	0.0731	0.0000	2,694.3178

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1280	4.3843	1.2126	0.0158	0.4103	5.0400e-003	0.4154	0.1186	4.8200e-003	0.1235	0.0000	1,515.6354	1,515.6354	0.0526	0.0000	1,516.9499
Worker	0.4486	0.2536	3.0539	0.0125	1.6850	9.3100e-003	1.6943	0.4481	8.5700e-003	0.4567	0.0000	1,128.0446	1,128.0446	0.0175	0.0000	1,128.4830
Total	0.5765	4.6380	4.2665	0.0283	2.0953	0.0144	2.1097	0.5668	0.0134	0.5802	0.0000	2,643.6800	2,643.6800	0.0701	0.0000	2,645.4329

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1280	4.3843	1.2126	0.0158	0.4103	5.0400e-003	0.4154	0.1186	4.8200e-003	0.1235	0.0000	1,515.6354	1,515.6354	0.0526	0.0000	1,516.9499
Worker	0.4486	0.2536	3.0539	0.0125	1.6850	9.3100e-003	1.6943	0.4481	8.5700e-003	0.4567	0.0000	1,128.0446	1,128.0446	0.0175	0.0000	1,128.4830
Total	0.5765	4.6380	4.2665	0.0283	2.0953	0.0144	2.1097	0.5668	0.0134	0.5802	0.0000	2,643.6800	2,643.6800	0.0701	0.0000	2,645.4329

3.7 Building Construction - 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	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724
Total	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724

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3.7 Building Construction - 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	0.1149	3.9662	1.0940	0.0144	0.3758	4.5100e-003	0.3803	0.1086	4.3100e-003	0.1129	0.0000	1,381.5206	1,381.5206	0.0471	0.0000	1,382.6969
Worker	0.3867	0.2136	2.6234	0.0111	1.5430	7.9100e-003	1.5509	0.4104	7.2800e-003	0.4176	0.0000	1,000.4770	1,000.4770	0.0147	0.0000	1,000.8450
Total	0.5016	4.1798	3.7174	0.0255	1.9187	0.0124	1.9311	0.5190	0.0116	0.5306	0.0000	2,381.9976	2,381.9976	0.0618	0.0000	2,383.5419

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	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721
Total	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721

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3.7 Building Construction - 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	0.1149	3.9662	1.0940	0.0144	0.3758	4.5100e-003	0.3803	0.1086	4.3100e-003	0.1129	0.0000	1,381.5206	1,381.5206	0.0471	0.0000	1,382.6969
Worker	0.3867	0.2136	2.6234	0.0111	1.5430	7.9100e-003	1.5509	0.4104	7.2800e-003	0.4176	0.0000	1,000.4770	1,000.4770	0.0147	0.0000	1,000.8450
Total	0.5016	4.1798	3.7174	0.0255	1.9187	0.0124	1.9311	0.5190	0.0116	0.5306	0.0000	2,381.9976	2,381.9976	0.0618	0.0000	2,383.5419

3.8 Architectural Coating - 2023

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					
Archit. Coating	10.9341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0659	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633
Total	11.0000	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090
Total	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090

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					
Archit. Coating	10.9341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632
Total	10.9443	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090
Total	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090

3.8 Architectural Coating - 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					
Archit. Coating	3.0514					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.0687	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325
Total	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325

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					
Archit. Coating	3.0514					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.0542	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325
Total	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.752 2	8,210.752 2	0.3601	0.0000	8,219.755 2
Unmitigated	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.752 2	8,210.752 2	0.3601	0.0000	8,219.755 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,814.40	1,972.32	1669.92	4,194,986	4,194,986
Apartments Low Rise	1,620.00	1,761.00	1491.00	3,745,523	3,745,523
Apartments Mid Rise	1,375.50	1,319.50	1211.00	3,104,112	3,104,112
City Park	56.70	682.50	502.20	447,770	447,770
City Park	5.16	62.11	45.70	40,747	40,747
Convenience Market (24 Hour)	0.00	0.00	0.00		
Office Park	2,088.42	301.38	138.28	3,896,052	3,896,052
Office Park	1,354.70	195.50	89.70	2,527,264	2,527,264
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Single Family Housing	1,893.34	1,970.06	1715.24	4,339,422	4,339,422
Unenclosed Parking Structure	202.00	202.00	202.00	153,839	153,839
Total	11,332.62	9,489.77	7,707.64	24,188,972	24,188,972

4.3 Trip Type Information

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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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Unenclosed Parking Structure	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Apartments Mid Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
City Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Convenience Market (24 Hour)	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Office Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Quality Restaurant	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Regional Shopping Center	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Single Family Housing	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Unenclosed Parking Structure	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843

5.0 Energy Detail

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,475.0265	1,475.0265	0.2390	0.0290	1,489.6319
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,481.1538	1,481.1538	0.2400	0.0291	1,495.8199
NaturalGas Mitigated	0.0451	0.3971	0.2529	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.8263	445.8263	8.5500e-003	8.1700e-003	448.4756
NaturalGas Unmitigated	0.0451	0.3971	0.2529	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.8263	445.8263	8.5500e-003	8.1700e-003	448.4756

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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					
Apartments Low Rise	1.02837e+006	5.5500e-003	0.0474	0.0202	3.0000e-004		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	54.8779	54.8779	1.0500e-003	1.0100e-003	55.2040
Apartments Low Rise	1.15178e+006	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4633	61.4633	1.1800e-003	1.1300e-003	61.8285
Apartments Mid Rise	863432	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.0761	46.0761	8.8000e-004	8.4000e-004	46.3499
City Park	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
Convenience Market (24 Hour)	7950	4.0000e-005	3.9000e-004	3.3000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4242	0.4242	1.0000e-005	1.0000e-005	0.4268
Office Park	363400	1.9600e-003	0.0178	0.0150	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3924	19.3924	3.7000e-004	3.6000e-004	19.5077
Office Park	560221	3.0200e-003	0.0275	0.0231	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.8955	29.8955	5.7000e-004	5.5000e-004	30.0732
Quality Restaurant	1.585e+006	0.0171	0.1554	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.1633	169.1633	3.2400e-003	3.1000e-003	170.1685
Regional Shopping Center	15300	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6329	1.6329	3.0000e-005	3.0000e-005	1.6426
Single Family Housing	1.17872e+006	6.3600e-003	0.0543	0.0231	3.5000e-004		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	62.9007	62.9007	1.2100e-003	1.1500e-003	63.2745
Unenclosed Parking Structure	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		0.0451	0.3971	0.2529	2.4500e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.8263	445.8263	8.5400e-003	8.1800e-003	448.4756

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas 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					
Apartments Low Rise	1.02837e+006	5.5500e-003	0.0474	0.0202	3.0000e-004		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	54.8779	54.8779	1.0500e-003	1.0100e-003	55.2040
Apartments Low Rise	1.15178e+006	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4633	61.4633	1.1800e-003	1.1300e-003	61.8285
Apartments Mid Rise	863432	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.0761	46.0761	8.8000e-004	8.4000e-004	46.3499
City Park	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
Convenience Market (24 Hour)	7950	4.0000e-005	3.9000e-004	3.3000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4242	0.4242	1.0000e-005	1.0000e-005	0.4268
Office Park	363400	1.9600e-003	0.0178	0.0150	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3924	19.3924	3.7000e-004	3.6000e-004	19.5077
Office Park	560221	3.0200e-003	0.0275	0.0231	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.8955	29.8955	5.7000e-004	5.5000e-004	30.0732
Quality Restaurant	1.585e+006	0.0171	0.1554	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.1633	169.1633	3.2400e-003	3.1000e-003	170.1685
Regional Shopping Center	15300	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6329	1.6329	3.0000e-005	3.0000e-005	1.6426
Single Family Housing	1.17872e+006	6.3600e-003	0.0543	0.0231	3.5000e-004		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	62.9007	62.9007	1.2100e-003	1.1500e-003	63.2745
Unenclosed Parking Structure	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		0.0451	0.3971	0.2529	2.4500e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.8263	445.8263	8.5400e-003	8.1800e-003	448.4756

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.06288e+006	98.2066	0.0159	1.9300e-003	99.1790
Apartments Low Rise	1.19042e+006	109.9914	0.0178	2.1600e-003	111.0805
Apartments Mid Rise	2.39287e+006	221.0937	0.0358	4.3400e-003	223.2830
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	65350	6.0381	9.8000e-004	1.2000e-004	6.0979
Office Park	3.3189e+006	306.6556	0.0497	6.0200e-003	309.6921
Office Park	5.11645e+006	472.7430	0.0766	9.2800e-003	477.4240
Quality Restaurant	318400	58.8383	9.5300e-003	1.1600e-003	59.4209
Regional Shopping Center	118600	21.9165	3.5500e-003	4.3000e-004	22.1335
Single Family Housing	1.96389e+006	181.4573	0.0294	3.5600e-003	183.2541
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,481.1538	0.2400	0.0291	1,495.8199

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.06288e+006	98.2066	0.0159	1.9300e-003	99.1790
Apartments Low Rise	1.19042e+006	109.9914	0.0178	2.1600e-003	111.0805
Apartments Mid Rise	2.35572e+006	217.6607	0.0353	4.2700e-003	219.8159
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	65350	6.0381	9.8000e-004	1.2000e-004	6.0979
Office Park	3.3189e+006	306.6556	0.0497	6.0200e-003	309.6921
Office Park	5.11645e+006	472.7430	0.0766	9.2800e-003	477.4240
Quality Restaurant	303820	56.1440	9.1000e-003	1.1000e-003	56.6999
Regional Shopping Center	118600	21.9165	3.5500e-003	4.3000e-004	22.1335
Single Family Housing	1.96389e+006	181.4573	0.0294	3.5600e-003	183.2541
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,475.0265	0.2390	0.0290	1,489.6319

6.0 Area Detail

6.1 Mitigation Measures Area

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	6.1214	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Unmitigated	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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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	1.3985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.9812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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	0.1251					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.9812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	6.1214	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

7.0 Water Detail

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	151.4916	5.1394	0.1230	316.6171
Unmitigated	198.9529	6.4258	0.1539	405.4548

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	44.0441 / 27.7669	44.9729	1.4402	0.0345	91.2579
Apartments Mid Rise	22.8039 / 14.3764	23.2848	0.7457	0.0179	47.2489
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.226996	0.3761	0.0121	2.9000e-004	0.7653
Office Park	103.898 / 63.6793	105.4998	3.3973	0.0814	214.6777
Quality Restaurant	6.07067 / 0.38749	5.0863	0.1983	4.7300e-003	11.4549
Regional Shopping Center	1.48145 / 0.907986	1.5043	0.0484	1.1600e-003	3.0610
Single Family Housing	17.8522 / 11.2546	18.2287	0.5838	0.0140	36.9891
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		198.9529	6.4258	0.1539	405.4548

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	35.2353 / 16.6602	34.1824	1.1519	0.0276	71.1926
Apartments Mid Rise	18.2431 / 8.62583	17.6980	0.5964	0.0143	36.8601
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.29629 / 0.136198	0.2862	9.6900e-003	2.3000e-004	0.5974
Office Park	83.1183 / 38.2076	80.2812	2.7171	0.0650	167.5828
Quality Restaurant	4.85654 / 0.232494	4.0440	0.1587	3.7900e-003	9.1386
Regional Shopping Center	1.18516 / 0.544791	1.1447	0.0387	9.3000e-004	2.3895
Single Family Housing	14.2818 / 6.75279	13.8550	0.4669	0.0112	28.8562
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		151.4916	5.1394	0.1230	316.6171

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	345.1192	20.3960	0.0000	855.0181
Unmitigated	690.2383	40.7919	0.0000	1,710.0362

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	781	158.5359	9.3692	0.0000	392.7661
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Office Park	533	108.1942	6.3941	0.0000	268.0465
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		690.2383	40.7919	0.0000	1,710.0362

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	710	144.1236	8.5175	0.0000	357.0601
Apartments Mid Rise	390.5	79.2680	4.6846	0.0000	196.3830
City Park	1.405	0.2852	0.0169	0.0000	0.7066
Convenience Market (24 Hour)	7.515	1.5255	0.0902	0.0000	3.7793
Office Park	266.5	54.0971	3.1971	0.0000	134.0233
Quality Restaurant	9.125	1.8523	0.1095	0.0000	4.5890
Regional Shopping Center	9.125	1.8523	0.1095	0.0000	4.5890
Single Family Housing	306	62.1152	3.6709	0.0000	153.8879
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		345.1191	20.3960	0.0000	855.0181

9.0 Operational Offroad

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

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

**Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	354.57	1000sqft	4.27	354,570.00	0
Office Park	230.00	1000sqft	2.77	230,000.00	0
Unenclosed Parking Structure	100.00	Space	0.00	40,000.00	0
City Park	30.00	Acre	30.00	1,306,800.00	0
City Park	2.73	Acre	2.73	118,918.80	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Apartments Low Rise	336.00	Dwelling Unit	11.03	336,000.00	961
Apartments Low Rise	300.00	Dwelling Unit	9.85	300,000.00	858
Apartments Mid Rise	350.00	Dwelling Unit	4.83	350,000.00	1001
Single Family Housing	274.00	Dwelling Unit	46.74	493,200.00	784
Convenience Market (24 Hour)	5.00	1000sqft	0.00	5,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year		2024	
Utility Company	Pacific Gas & Electric Company				

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CO2 Intensity (lb/MW hr)	203.7	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project operational year = 2024. Updated electricity emission factors to incorporate RPS for 2024.

Land Use - CalEEMod acreage scaled to match project acreage of 80 acres for Residential, office, retail and restaurant.

Construction Phase - Construction duration is from 2/1/2021 to 11/30/2028 based on Suncal schedule. Total construction days match inputs provided by AES. Exact start and end dates are defined by CalEEMod and won't exactly match AES/SunCal inputs.

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment -

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment -

Trips and VMT - CalEEMod default trip rates

Demolition - Input provided by AES/developer.

Grading - Total soil quantity exported is 355,000 cu yd. Grading area for bay trail development is 2.73 acres. Grading area for project is 90 acres.

Vehicle Trips - Trip rates obtained from Traffic Impact Analysis Memo

Vehicle Emission Factors - EMFAC 2017 Emission Factors. See Air Quality Appendix Table A12 for EMFAC2017 inputs.

Road Dust - Updated silt loading factor is specific to Contra Costa county. See Air Quality Appendix Table EF2 for details.

Consumer Products - Consumer Product emission factors are updated to reflect statewide 2017 factors. See Air Quality Appendix Table A13 for further details.

Landscape Equipment - Total landscaping days set to zero

Energy Use - See Air Quality Appendix Table A15 for details on updated energy intensity values.

Solid Waste - See Air Quality Appendix Table A16 for details on updated solid waste generation rates.

Area Mitigation - Assuming "super-compliant" VOC paint for indoor and outdoor coatings - EFs from SCAQMD Rule 1113.

Energy Mitigation - Applying energy efficient appliances to residential units and restaurant.

Water Mitigation - Applying low-flow faucets, toilets and showers for indoor water use, with default reduction percentages.

Waste Mitigation - Applying 50% solid waste reduction measure.

Stationary Sources - Emergency Generators and Fire Pumps - Emergency generators evaluated outside of CalEEMod.

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Table Name	Column Name	Default Value	New Value
tblApplianceMitigation	PercentImprovement	15.00	30.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	998,460.00	1,025,460.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,995,380.00	3,076,380.00
tblAreaCoating	Area_Residential_Exterior	998460	1025460
tblAreaCoating	Area_Residential_Interior	2995380	3076380
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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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	220.00	110.00
tblConstructionPhase	NumDays	3,100.00	1,550.00
tblConstructionPhase	NumDays	200.00	78.00
tblConstructionPhase	NumDays	310.00	261.00
tblConstructionPhase	NumDays	310.00	262.00
tblConstructionPhase	NumDays	220.00	125.00
tblConstructionPhase	NumDays	120.00	89.00
tblConsumerProducts	ROG_EF	2.14E-05	1.55E-05
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	741.44	667.30
tblEnergyUse	LightingElect	4.88	5.88
tblEnergyUse	LightingElect	3.47	3.77
tblEnergyUse	LightingElect	5.34	5.61
tblEnergyUse	LightingElect	4.88	5.12
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	1.75	1.14

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tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	1.17	1.00
tblEnergyUse	NT24NG	128.02	128.00
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	T24E	233.06	3,542.93
tblEnergyUse	T24E	426.45	3,115.38
tblEnergyUse	T24E	2.24	3.83
tblEnergyUse	T24E	4.27	5.85
tblEnergyUse	T24E	2.67	5.26
tblEnergyUse	T24E	2.24	3.38
tblEnergyUse	T24E	217.68	7,167.49
tblEnergyUse	T24NG	17,734.50	1,466.66
tblEnergyUse	T24NG	6,115.43	505.70
tblEnergyUse	T24NG	3.90	0.59
tblEnergyUse	T24NG	17.44	0.58
tblEnergyUse	T24NG	39.90	30.50
tblEnergyUse	T24NG	3.90	0.53
tblEnergyUse	T24NG	39,708.76	2,340.63
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00

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tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblGrading	AcresOfGrading	1,696.50	90.00
tblGrading	AcresOfGrading	622.25	2.73
tblGrading	MaterialExported	0.00	344,550.00
tblGrading	MaterialExported	0.00	10,450.00
tblLandUse	LotAcreage	5.28	2.77
tblLandUse	LotAcreage	8.14	4.27

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tblLandUse	LotAcreage	0.90	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	18.75	9.85
tblLandUse	LotAcreage	21.00	11.03
tblLandUse	LotAcreage	9.21	4.83
tblLandUse	LotAcreage	88.96	46.74
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblOffRoadEquipment	HorsePower	402.00	367.00
tblOffRoadEquipment	LoadFactor	0.38	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	641.35	203.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblRoadDust	RoadSiltLoading	0.1	0.047
tblSolidWaste	SolidWasteGenerationRate	292.56	1,420.00
tblSolidWaste	SolidWasteGenerationRate	161.00	781.00
tblSolidWaste	SolidWasteGenerationRate	543.65	533.00

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tblSolidWaste	SolidWasteGenerationRate	21.00	18.25
tblSolidWaste	SolidWasteGenerationRate	329.28	612.00
tblTripsAndVMT	HaulingTripNumber	34,067.00	43,069.00
tblTripsAndVMT	HaulingTripNumber	1,033.00	1,306.00
tblVehicleEF	HHD	0.41	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.58	6.28
tblVehicleEF	HHD	0.84	0.40
tblVehicleEF	HHD	2.87	5.3000e-003
tblVehicleEF	HHD	4,335.05	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.83	5.34
tblVehicleEF	HHD	1.90	2.66
tblVehicleEF	HHD	19.75	2.36
tblVehicleEF	HHD	7.9210e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	7.5790e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	7.6000e-005	0.00

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tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.41	0.42
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3500e-004	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.48	0.49
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.39	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.15	6.28
tblVehicleEF	HHD	0.85	0.40
tblVehicleEF	HHD	2.61	5.3000e-003
tblVehicleEF	HHD	4,592.60	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	14.28	5.34
tblVehicleEF	HHD	1.83	2.66

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tblVehicleEF	HHD	19.74	2.36
tblVehicleEF	HHD	6.6780e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	6.3890e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.39	0.42
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3100e-004	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.45	0.49
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.3800e-004	0.00

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tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.45	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.17	6.28
tblVehicleEF	HHD	0.83	0.40
tblVehicleEF	HHD	3.11	5.3000e-003
tblVehicleEF	HHD	3,979.39	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.22	5.34
tblVehicleEF	HHD	1.93	2.66
tblVehicleEF	HHD	19.77	2.36
tblVehicleEF	HHD	9.6380e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	9.2210e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	2.1000e-005	0.00

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tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.51	0.49
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	LDA	3.2820e-003	1.8000e-003
tblVehicleEF	LDA	4.5120e-003	0.05
tblVehicleEF	LDA	0.48	0.52
tblVehicleEF	LDA	1.04	2.15
tblVehicleEF	LDA	229.87	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003

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tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.2620e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.3010e-003	2.4000e-003
tblVehicleEF	LDA	5.4600e-004	5.0000e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	3.7280e-003	1.8000e-003
tblVehicleEF	LDA	3.6390e-003	0.05
tblVehicleEF	LDA	0.58	0.52
tblVehicleEF	LDA	0.80	2.15
tblVehicleEF	LDA	251.31	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003

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tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	9.3650e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.21
tblVehicleEF	LDA	2.5170e-003	2.4000e-003
tblVehicleEF	LDA	5.4200e-004	5.0000e-004
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.23
tblVehicleEF	LDA	3.1830e-003	1.8000e-003
tblVehicleEF	LDA	5.1540e-003	0.05
tblVehicleEF	LDA	0.47	0.52
tblVehicleEF	LDA	1.24	2.15
tblVehicleEF	LDA	226.93	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02

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tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	8.0170e-003	6.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.2720e-003	2.4000e-003
tblVehicleEF	LDA	5.4900e-004	5.0000e-004
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDT1	6.8390e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.88	0.87
tblVehicleEF	LDT1	2.31	2.34
tblVehicleEF	LDT1	287.67	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.13	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003

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tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.15	0.32
tblVehicleEF	LDT1	2.8860e-003	2.8000e-003
tblVehicleEF	LDT1	7.0800e-004	6.0000e-004
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.16	0.35
tblVehicleEF	LDT1	7.6930e-003	3.8000e-003
tblVehicleEF	LDT1	8.8990e-003	0.07
tblVehicleEF	LDT1	1.05	0.87
tblVehicleEF	LDT1	1.76	2.34
tblVehicleEF	LDT1	313.61	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.11	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003

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tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.12	0.32
tblVehicleEF	LDT1	3.1480e-003	2.8000e-003
tblVehicleEF	LDT1	6.9900e-004	6.0000e-004
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.13	0.35
tblVehicleEF	LDT1	6.6770e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.87	0.87
tblVehicleEF	LDT1	2.76	2.34
tblVehicleEF	LDT1	284.11	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.10	0.07
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	0.04	0.04

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tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8500e-003	2.8000e-003
tblVehicleEF	LDT1	7.1600e-004	6.0000e-004
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT2	4.4150e-003	2.9000e-003
tblVehicleEF	LDT2	5.8360e-003	0.06
tblVehicleEF	LDT2	0.62	0.70
tblVehicleEF	LDT2	1.34	2.74
tblVehicleEF	LDT2	323.78	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.26

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tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.2420e-003	3.0000e-003
tblVehicleEF	LDT2	7.6900e-004	7.0000e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.0080e-003	2.9000e-003
tblVehicleEF	LDT2	4.7080e-003	0.06
tblVehicleEF	LDT2	0.75	0.70
tblVehicleEF	LDT2	1.03	2.74
tblVehicleEF	LDT2	353.38	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.05	0.06

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tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	3.5390e-003	3.0000e-003
tblVehicleEF	LDT2	7.6400e-004	7.0000e-004
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.32
tblVehicleEF	LDT2	4.2820e-003	2.9000e-003
tblVehicleEF	LDT2	6.6640e-003	0.06
tblVehicleEF	LDT2	0.60	0.70
tblVehicleEF	LDT2	1.58	2.74
tblVehicleEF	LDT2	319.73	307.00
tblVehicleEF	LDT2	74.71	66.18

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tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.2010e-003	3.0000e-003
tblVehicleEF	LDT2	7.7400e-004	7.0000e-004
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.99	0.77

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tblVehicleEF	LHD1	2.29	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.39	0.94
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004

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tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.01	0.77
tblVehicleEF	LHD1	2.10	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.33	0.94
tblVehicleEF	LHD1	0.87	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003

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tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.3800e-004	1.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.16	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.24	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.77
tblVehicleEF	LHD1	2.47	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98

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tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.42	0.94
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4500e-004	1.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03

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tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.0300e-003	6.9000e-003
tblVehicleEF	LHD2	5.6740e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	1.02	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.77	0.98
tblVehicleEF	LHD2	0.40	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004

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tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.1180e-003	6.9000e-003
tblVehicleEF	LHD2	5.3450e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	0.94	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.74	0.98

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tblVehicleEF	LHD2	0.38	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4200e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08

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tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	6.9590e-003	6.9000e-003
tblVehicleEF	LHD2	5.9550e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.64
tblVehicleEF	LHD2	1.09	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.78	0.98
tblVehicleEF	LHD2	0.42	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004

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tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.16	0.26
tblVehicleEF	MCY	19.70	20.00
tblVehicleEF	MCY	10.22	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003

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tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.27	2.29
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	2.1230e-003	2.1000e-003
tblVehicleEF	MCY	6.8900e-004	6.0000e-004
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.81	2.82
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.43	2.15
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.13	0.26
tblVehicleEF	MCY	18.98	20.00
tblVehicleEF	MCY	8.86	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.02	1.16
tblVehicleEF	MCY	0.29	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003

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tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.18	2.29
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.83	1.98
tblVehicleEF	MCY	2.1090e-003	2.1000e-003
tblVehicleEF	MCY	6.5400e-004	6.0000e-004
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.70	2.82
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.99	2.15
tblVehicleEF	MCY	0.47	0.34
tblVehicleEF	MCY	0.19	0.26
tblVehicleEF	MCY	21.47	20.00
tblVehicleEF	MCY	11.78	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.25	1.16
tblVehicleEF	MCY	0.35	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003

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tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.37	2.29
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.62	1.98
tblVehicleEF	MCY	2.1550e-003	2.1000e-003
tblVehicleEF	MCY	7.2600e-004	6.0000e-004
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.94	2.82
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.85	2.15
tblVehicleEF	MDV	8.6020e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.97	0.82
tblVehicleEF	MDV	2.71	3.10
tblVehicleEF	MDV	443.89	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.24	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003

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tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4430e-003	3.8000e-003
tblVehicleEF	MDV	1.0620e-003	8.0000e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	9.7400e-003	3.8000e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.18	0.82
tblVehicleEF	MDV	2.08	3.10
tblVehicleEF	MDV	483.31	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.21	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003

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tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.38
tblVehicleEF	MDV	4.8400e-003	3.8000e-003
tblVehicleEF	MDV	1.0500e-003	8.0000e-004
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.04	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.42
tblVehicleEF	MDV	8.3570e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.96	0.82
tblVehicleEF	MDV	3.22	3.10
tblVehicleEF	MDV	438.49	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	0.04	0.04

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tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.23	0.38
tblVehicleEF	MDV	4.3890e-003	3.8000e-003
tblVehicleEF	MDV	1.0710e-003	8.0000e-004
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.25	0.42
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.46	0.85
tblVehicleEF	MH	4.96	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.34	1.52
tblVehicleEF	MH	0.78	0.24

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tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.6600e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.32	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.52	0.85
tblVehicleEF	MH	4.45	1.96
tblVehicleEF	MH	1,212.36	1,512.95

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tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.26	1.52
tblVehicleEF	MH	0.72	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.27	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5800e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02

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tblVehicleEF	MH	1.41	0.85
tblVehicleEF	MH	5.39	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.38	1.52
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7400e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01

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tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.4400e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.37	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.47	1.19
tblVehicleEF	MHD	134.03	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.38	0.52
tblVehicleEF	MHD	1.11	1.47
tblVehicleEF	MHD	10.23	1.66
tblVehicleEF	MHD	1.4100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.3500e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02

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tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	1.2910e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0200e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.01	4.0000e-003
tblVehicleEF	MHD	4.5430e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.43
tblVehicleEF	MHD	0.36	0.27
tblVehicleEF	MHD	4.98	1.19
tblVehicleEF	MHD	142.13	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.40	0.52
tblVehicleEF	MHD	1.07	1.47
tblVehicleEF	MHD	10.17	1.66
tblVehicleEF	MHD	1.1900e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004

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tblVehicleEF	MHD	1.1400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	1.3670e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9400e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.3600e-003	2.1000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.94	1.19

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tblVehicleEF	MHD	123.22	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.37	0.52
tblVehicleEF	MHD	1.13	1.47
tblVehicleEF	MHD	10.28	1.66
tblVehicleEF	MHD	1.7100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.6400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	1.1890e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.05	0.02

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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.3020e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.53	0.98
tblVehicleEF	OBUS	5.50	2.88
tblVehicleEF	OBUS	71.68	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.14	0.23
tblVehicleEF	OBUS	0.75	1.13
tblVehicleEF	OBUS	2.17	0.68
tblVehicleEF	OBUS	1.3000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05

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tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.34	0.14
tblVehicleEF	OBUS	6.9600e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.37	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.5680e-003	9.0000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	4.94	2.88
tblVehicleEF	OBUS	74.94	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.15	0.23
tblVehicleEF	OBUS	0.71	1.13
tblVehicleEF	OBUS	2.10	0.68
tblVehicleEF	OBUS	1.1000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003

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tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.32	0.14
tblVehicleEF	OBUS	7.2700e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7700e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.35	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.0920e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.52	0.98

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tblVehicleEF	OBUS	5.95	2.88
tblVehicleEF	OBUS	67.19	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.13	0.23
tblVehicleEF	OBUS	0.77	1.13
tblVehicleEF	OBUS	2.23	0.68
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.36	0.14
tblVehicleEF	OBUS	6.5300e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9500e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03

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tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1030e-003	2.6000e-003
tblVehicleEF	SBUS	0.06	1.3000e-003
tblVehicleEF	SBUS	2.09	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.33	0.19
tblVehicleEF	SBUS	1,440.18	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.22	2.23
tblVehicleEF	SBUS	4.78	2.75
tblVehicleEF	SBUS	19.18	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004

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tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2700e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	8.0000e-003
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1440e-003	2.6000e-003
tblVehicleEF	SBUS	0.05	1.3000e-003
tblVehicleEF	SBUS	1.93	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	0.91	0.19
tblVehicleEF	SBUS	1,522.68	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.64	2.23
tblVehicleEF	SBUS	4.59	2.75
tblVehicleEF	SBUS	19.17	1.56

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tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	9.5970e-003	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.24	0.09
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.05	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2100e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.33	0.12
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.06	8.0000e-003
tblVehicleEF	SBUS	0.88	0.02
tblVehicleEF	SBUS	6.0730e-003	2.6000e-003

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tblVehicleEF	SBUS	0.07	1.3000e-003
tblVehicleEF	SBUS	2.33	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.66	0.19
tblVehicleEF	SBUS	1,326.25	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	12.63	2.23
tblVehicleEF	SBUS	4.86	2.75
tblVehicleEF	SBUS	19.19	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003

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tblVehicleEF	SBUS	1.3300e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	8.0000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.07	1.5000e-003
tblVehicleEF	UBUS	4.04	8.13
tblVehicleEF	UBUS	11.74	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.66	0.64
tblVehicleEF	UBUS	12.20	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004

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tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.98	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7290e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.65	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	1.08	5.8000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.06	1.5000e-003
tblVehicleEF	UBUS	4.11	8.13
tblVehicleEF	UBUS	9.17	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.41	0.64
tblVehicleEF	UBUS	12.07	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00

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tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.39	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.85	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.6840e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.66	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.93	5.8000e-003
tblVehicleEF	UBUS	0.23	1.10
tblVehicleEF	UBUS	0.08	1.5000e-003
tblVehicleEF	UBUS	4.00	8.13
tblVehicleEF	UBUS	14.08	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.77	0.64
tblVehicleEF	UBUS	12.31	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03

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tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.10	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7700e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.64	1.12
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.20	5.8000e-003
tblVehicleTrips	CC_TTP	0.00	80.10
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	0.90
tblVehicleTrips	DV_TP	18.00	40.00
tblVehicleTrips	DV_TP	35.00	40.00
tblVehicleTrips	DV_TP	0.00	15.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	0.00	61.00
tblVehicleTrips	PR_TP	38.00	60.00

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tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	PR_TP	0.00	24.00
tblVehicleTrips	ST_TR	7.16	5.87
tblVehicleTrips	ST_TR	6.39	3.77
tblVehicleTrips	ST_TR	863.10	0.00
tblVehicleTrips	ST_TR	1.64	0.85
tblVehicleTrips	ST_TR	94.36	24.19
tblVehicleTrips	ST_TR	49.97	26.98
tblVehicleTrips	ST_TR	9.91	7.19
tblVehicleTrips	ST_TR	0.00	2.02
tblVehicleTrips	SU_TR	6.07	4.97
tblVehicleTrips	SU_TR	5.86	3.46
tblVehicleTrips	SU_TR	758.45	0.00
tblVehicleTrips	SU_TR	0.76	0.39
tblVehicleTrips	SU_TR	72.16	18.50
tblVehicleTrips	SU_TR	25.24	13.63
tblVehicleTrips	SU_TR	8.62	6.26
tblVehicleTrips	SU_TR	0.00	2.02
tblVehicleTrips	WD_TR	6.59	5.40
tblVehicleTrips	WD_TR	6.65	3.93
tblVehicleTrips	WD_TR	737.99	0.00
tblVehicleTrips	WD_TR	11.42	5.89
tblVehicleTrips	WD_TR	89.95	23.06
tblVehicleTrips	WD_TR	42.70	23.06
tblVehicleTrips	WD_TR	9.52	6.91
tblVehicleTrips	WD_TR	0.00	2.02
tblWater	IndoorWaterUseRate	41,437,960.30	44,044,121.32

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tblWater	OutdoorWaterUseRate	26,123,931.49	27,766,946.05
tblWater	OutdoorWaterUseRate	38,997,184.57	0.00
tblWoodstoves	NumberCatalytic	12.72	0.00
tblWoodstoves	NumberCatalytic	7.00	0.00
tblWoodstoves	NumberCatalytic	10.96	0.00
tblWoodstoves	NumberNoncatalytic	12.72	0.00
tblWoodstoves	NumberNoncatalytic	7.00	0.00
tblWoodstoves	NumberNoncatalytic	10.96	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

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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					
2021	1.2161	16.2072	8.5517	0.0283	1.8482	0.5252	2.3734	0.8787	0.4842	1.3629	0.0000	2,597.7828	2,597.7828	0.4832	0.0000	2,609.8618
2022	0.7740	8.8620	6.2797	0.0184	1.1261	0.3088	1.4349	0.4836	0.2844	0.7680	0.0000	1,658.7579	1,658.7579	0.3860	0.0000	1,668.4089
2023	12.0286	8.0757	9.0559	0.0378	2.3097	0.1613	2.4710	0.6509	0.1525	0.8034	0.0000	3,476.7066	3,476.7066	0.2045	0.0000	3,481.8195
2024	3.9457	6.8111	7.4952	0.0343	2.1344	0.1021	2.2365	0.5772	0.0963	0.6735	0.0000	3,171.5239	3,171.5239	0.1542	0.0000	3,175.3781
2025	0.8147	6.4407	6.8851	0.0329	2.0953	0.0843	2.1796	0.5668	0.0791	0.6459	0.0000	3,049.8291	3,049.8291	0.1476	0.0000	3,053.5197
2026	0.7839	6.3519	6.6073	0.0323	2.0953	0.0838	2.1792	0.5668	0.0787	0.6455	0.0000	2,995.1442	2,995.1442	0.1443	0.0000	2,998.7513
2027	0.7550	6.2653	6.3655	0.0318	2.0953	0.0832	2.1785	0.5668	0.0782	0.6449	0.0000	2,946.3349	2,946.3349	0.1413	0.0000	2,949.8664
2028	0.6650	5.6699	5.6395	0.0287	1.9187	0.0755	1.9942	0.5190	0.0709	0.5899	0.0000	2,659.1414	2,659.1414	0.1269	0.0000	2,662.3144
Maximum	12.0286	16.2072	9.0559	0.0378	2.3097	0.5252	2.4710	0.8787	0.4842	1.3629	0.0000	3,476.7066	3,476.7066	0.4832	0.0000	3,481.8195

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2.1 Overall Construction

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					
2021	0.4376	6.6648	8.7730	0.0283	1.0400	0.0969	1.1369	0.4514	0.0913	0.5428	0.0000	2,597.781 2	2,597.781 2	0.4832	0.0000	2,609.860 2
2022	0.3618	3.8954	7.0112	0.0184	0.7210	0.1010	0.8220	0.2729	0.0943	0.3672	0.0000	1,658.756 5	1,658.756 5	0.3860	0.0000	1,668.407 5
2023	11.7640	5.5514	9.3498	0.0378	2.2555	0.0305	2.2860	0.6215	0.0290	0.6504	0.0000	3,476.706 0	3,476.706 0	0.2045	0.0000	3,481.818 9
2024	3.7814	5.2381	7.6667	0.0343	2.1344	0.0217	2.1560	0.5772	0.0206	0.5978	0.0000	3,171.523 6	3,171.523 6	0.1542	0.0000	3,175.377 7
2025	0.6791	5.1051	7.0646	0.0329	2.0953	0.0207	2.1160	0.5668	0.0197	0.5864	0.0000	3,049.828 8	3,049.828 8	0.1476	0.0000	3,053.519 4
2026	0.6483	5.0163	6.7868	0.0323	2.0953	0.0203	2.1156	0.5668	0.0193	0.5861	0.0000	2,995.143 8	2,995.143 8	0.1443	0.0000	2,998.751 0
2027	0.6193	4.9296	6.5450	0.0318	2.0953	0.0197	2.1150	0.5668	0.0187	0.5855	0.0000	2,946.334 5	2,946.334 5	0.1413	0.0000	2,949.866 0
2028	0.5408	4.4468	5.8039	0.0287	1.9187	0.0173	1.9360	0.5190	0.0165	0.5355	0.0000	2,659.141 1	2,659.141 1	0.1269	0.0000	2,662.314 0
Maximum	11.7640	6.6648	9.3498	0.0378	2.2555	0.1010	2.2860	0.6215	0.0943	0.6504	0.0000	3,476.706 0	3,476.706 0	0.4832	0.0000	3,481.818 9

	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	10.25	36.85	-3.73	0.00	8.11	76.97	13.87	13.88	76.64	27.43	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	2-1-2021	4-30-2021	3.6175	0.8996
2	5-1-2021	7-31-2021	5.8880	2.3394

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3	8-1-2021	10-31-2021	4.6736	2.2709
4	11-1-2021	1-31-2022	5.0925	2.4874
5	2-1-2022	4-30-2022	4.8333	2.2298
6	5-1-2022	7-31-2022	1.6509	0.6295
7	8-1-2022	10-31-2022	1.4097	0.3883
8	11-1-2022	1-31-2023	2.2663	1.0905
9	2-1-2023	4-30-2023	2.3086	1.5996
10	5-1-2023	7-31-2023	1.9569	1.5168
11	8-1-2023	10-31-2023	7.8004	7.1274
12	11-1-2023	1-31-2024	10.7532	9.9818
13	2-1-2024	4-30-2024	1.9604	1.5598
14	5-1-2024	7-31-2024	1.8879	1.4820
15	8-1-2024	10-31-2024	1.8973	1.4914
16	11-1-2024	1-31-2025	1.8924	1.4984
17	2-1-2025	4-30-2025	1.7775	1.4191
18	5-1-2025	7-31-2025	1.8201	1.4497
19	8-1-2025	10-31-2025	1.8289	1.4585
20	11-1-2025	1-31-2026	1.8356	1.4652
21	2-1-2026	4-30-2026	1.7477	1.3893
22	5-1-2026	7-31-2026	1.7903	1.4198
23	8-1-2026	10-31-2026	1.7986	1.4281
24	11-1-2026	1-31-2027	1.8047	1.4342
25	2-1-2027	4-30-2027	1.7189	1.3605
26	5-1-2027	7-31-2027	1.7615	1.3910
27	8-1-2027	10-31-2027	1.7693	1.3988
28	11-1-2027	1-31-2028	1.7756	1.4051
29	2-1-2028	4-30-2028	1.7124	1.3500

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30	5-1-2028	7-31-2028	1.7359	1.3655
31	8-1-2028	9-30-2028	1.1510	0.9054
		Highest	10.7532	9.9818

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	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.0451	0.3971	0.2529	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	1,926.9801	1,926.9801	0.2485	0.0373	1,944.2955
Mobile	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.7522	8,210.7522	0.3601	0.0000	8,219.7552
Waste						0.0000	0.0000		0.0000	0.0000	690.2383	0.0000	690.2383	40.7919	0.0000	1,710.0362
Water						0.0000	0.0000		0.0000	0.0000	62.3469	136.6060	198.9529	6.4258	0.1539	405.4548
Total	10.2714	6.4830	30.0025	0.0922	5.1752	0.1117	5.2869	1.4699	0.1070	1.5769	752.5852	10,424.1454	11,176.7306	47.8292	0.1939	12,430.2391

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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	6.1214	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.0451	0.3971	0.2529	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	1,920.8527	1,920.8527	0.2475	0.0371	1,938.1075
Mobile	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.7522	8,210.7522	0.3601	0.0000	8,219.7552
Waste						0.0000	0.0000		0.0000	0.0000	345.1192	0.0000	345.1192	20.3960	0.0000	855.0181
Water						0.0000	0.0000		0.0000	0.0000	49.8775	116.9556	166.8331	5.1419	0.1233	332.1106
Total	8.9979	6.4830	30.0025	0.0922	5.1752	0.1117	5.2869	1.4699	0.1070	1.5769	394.9967	10,398.3676	10,793.3643	26.1483	0.1632	11,495.6888

	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	12.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.51	0.25	3.43	45.33	15.86	7.52

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2021	5/19/2021	5	78	
2	Site Preparation	Site Preparation	3/1/2021	7/1/2021	5	89	
3	Grading	Grading	4/1/2021	3/31/2022	5	261	
4	Paving	Paving	1/1/2022	6/24/2022	5	125	
5	Bay Trail Grading	Grading	3/1/2022	3/1/2023	5	262	
6	Building Construction	Building Construction	12/23/2022	11/30/2028	5	1550	
7	Architectural Coating	Architectural Coating	9/1/2023	2/1/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 3,076,380; Residential Outdoor: 1,025,460; Non-Residential Indoor: 944,355; Non-Residential Outdoor: 314,785; Striped Parking Area: 2,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	6	8.00	367	0.48

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Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Bay Trail Grading	Excavators	1	6.00	158	0.38
Bay Trail Grading	Graders	1	6.00	187	0.41
Bay Trail Grading	Off-Highway Trucks	1	8.00	367	0.48
Bay Trail Grading	Paving Equipment	1	8.00	132	0.36
Bay Trail Grading	Plate Compactors	1	8.00	8	0.43
Bay Trail Grading	Rubber Tired Dozers	1	6.00	247	0.40
Bay Trail Grading	Scrapers	2	8.00	367	0.48
Bay Trail Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	8	6.00	78	0.48

Trips and VMT

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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
Demolition	6	15.00	0.00	227.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	30.00	0.00	43,069.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Bay Trail Grading	9	23.00	0.00	1,306.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,628.00	478.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	326.00	0.00	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

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

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					0.0246	0.0000	0.0246	3.7300e-003	0.0000	3.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1234	1.2262	0.8410	1.5100e-003		0.0605	0.0605		0.0562	0.0562	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361
Total	0.1234	1.2262	0.8410	1.5100e-003	0.0246	0.0605	0.0851	3.7300e-003	0.0562	0.0599	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

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					0.0111	0.0000	0.0111	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.0781	0.9079	1.5100e-003		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360
Total	0.0180	0.0781	0.9079	1.5100e-003	0.0111	2.4000e-003	0.0135	1.6800e-003	2.4000e-003	4.0800e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

3.3 Site Preparation - 2021

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					0.8040	0.0000	0.8040	0.4419	0.0000	0.4419	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1730	1.8021	0.9414	1.6900e-003		0.0910	0.0910		0.0837	0.0837	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920
Total	0.1730	1.8021	0.9414	1.6900e-003	0.8040	0.0910	0.8949	0.4419	0.0837	0.5256	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

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					0.3618	0.0000	0.3618	0.1989	0.0000	0.1989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.0898	0.9287	1.6900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918
Total	0.0207	0.0898	0.9287	1.6900e-003	0.3618	2.7600e-003	0.3645	0.1989	2.7600e-003	0.2016	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

3.4 Grading - 2021

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					0.6409	0.0000	0.6409	0.3312	0.0000	0.3312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7790	8.7873	5.8014	0.0121		0.3596	0.3596		0.3308	0.3308	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347
Total	0.7790	8.7873	5.8014	0.0121	0.6409	0.3596	1.0005	0.3312	0.3308	0.6621	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

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					0.2884	0.0000	0.2884	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2582	2.1053	5.9685	0.0121		0.0776	0.0776		0.0727	0.0727	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334
Total	0.2582	2.1053	5.9685	0.0121	0.2884	0.0776	0.3660	0.1490	0.0727	0.2218	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

3.4 Grading - 2022

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					0.2404	0.0000	0.2404	0.1111	0.0000	0.1111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2209	2.3878	1.7454	3.9300e-003		0.0970	0.0970		0.0892	0.0892	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322
Total	0.2209	2.3878	1.7454	3.9300e-003	0.2404	0.0970	0.3374	0.1111	0.0892	0.2003	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

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					0.1082	0.0000	0.1082	0.0500	0.0000	0.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0786	0.5995	1.9088	3.9300e-003		0.0220	0.0220		0.0207	0.0207	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318
Total	0.0786	0.5995	1.9088	3.9300e-003	0.1082	0.0220	0.1302	0.0500	0.0207	0.0706	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

3.5 Paving - 2022

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

3.6 Bay Trail Grading - 2022

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					0.4960	0.0000	0.4960	0.2720	0.0000	0.2720	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4053	4.1437	3.0396	7.4600e-003		0.1689	0.1689		0.1555	0.1555	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293
Total	0.4053	4.1437	3.0396	7.4600e-003	0.4960	0.1689	0.6650	0.2720	0.1555	0.4275	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

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					0.2232	0.0000	0.2232	0.1224	0.0000	0.1224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1395	1.0055	3.6043	7.4600e-003		0.0384	0.0384		0.0361	0.0361	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286
Total	0.1395	1.0055	3.6043	7.4600e-003	0.2232	0.0384	0.2616	0.1224	0.0361	0.1585	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

3.6 Bay Trail Grading - 2023

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					0.0986	0.0000	0.0986	0.0535	0.0000	0.0535	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.7283	0.5768	1.4700e-003		0.0293	0.0293		0.0270	0.0270	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717
Total	0.0740	0.7283	0.5768	1.4700e-003	0.0986	0.0293	0.1279	0.0535	0.0270	0.0805	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

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					0.0444	0.0000	0.0444	0.0241	0.0000	0.0241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.1874	0.7054	1.4700e-003		7.1300e-003	7.1300e-003		6.7200e-003	6.7200e-003	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716
Total	0.0269	0.1874	0.7054	1.4700e-003	0.0444	7.1300e-003	0.0515	0.0241	6.7200e-003	0.0308	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

3.7 Building Construction - 2022

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	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.3800e-003	0.1400	0.0353	3.8000e-004	9.4300e-003	2.9000e-004	9.7200e-003	2.7300e-003	2.8000e-004	3.0000e-003	0.0000	36.7183	36.7183	1.6300e-003	0.0000	36.7591
Worker	0.0141	9.4800e-003	0.1028	3.5000e-004	0.0387	2.5000e-004	0.0390	0.0103	2.3000e-004	0.0105	0.0000	31.5607	31.5607	6.7000e-004	0.0000	31.5774
Total	0.0184	0.1495	0.1381	7.3000e-004	0.0482	5.4000e-004	0.0487	0.0130	5.1000e-004	0.0135	0.0000	68.2790	68.2790	2.3000e-003	0.0000	68.3365

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	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.3800e-003	0.1400	0.0353	3.8000e-004	9.4300e-003	2.9000e-004	9.7200e-003	2.7300e-003	2.8000e-004	3.0000e-003	0.0000	36.7183	36.7183	1.6300e-003	0.0000	36.7591
Worker	0.0141	9.4800e-003	0.1028	3.5000e-004	0.0387	2.5000e-004	0.0390	0.0103	2.3000e-004	0.0105	0.0000	31.5607	31.5607	6.7000e-004	0.0000	31.5774
Total	0.0184	0.1495	0.1381	7.3000e-004	0.0482	5.4000e-004	0.0487	0.0130	5.1000e-004	0.0135	0.0000	68.2790	68.2790	2.3000e-003	0.0000	68.3365

3.7 Building Construction - 2023

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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3.7 Building Construction - 2023

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	0.1431	4.6177	1.3639	0.0162	0.4087	5.5100e-003	0.4142	0.1182	5.2700e-003	0.1234	0.0000	1,546.8359	1,546.8359	0.0582	0.0000	1,548.2905
Worker	0.5676	0.3688	4.0946	0.0145	1.6786	0.0104	1.6890	0.4464	9.6000e-003	0.4560	0.0000	1,314.5008	1,314.5008	0.0259	0.0000	1,315.1489
Total	0.7107	4.9865	5.4585	0.0307	2.0873	0.0159	2.1032	0.5646	0.0149	0.5795	0.0000	2,861.3367	2,861.3367	0.0841	0.0000	2,863.4395

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	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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3.7 Building Construction - 2023

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	0.1431	4.6177	1.3639	0.0162	0.4087	5.5100e-003	0.4142	0.1182	5.2700e-003	0.1234	0.0000	1,546.8359	1,546.8359	0.0582	0.0000	1,548.2905
Worker	0.5676	0.3688	4.0946	0.0145	1.6786	0.0104	1.6890	0.4464	9.6000e-003	0.4560	0.0000	1,314.5008	1,314.5008	0.0259	0.0000	1,315.1489
Total	0.7107	4.9865	5.4585	0.0307	2.0873	0.0159	2.1032	0.5646	0.0149	0.5795	0.0000	2,861.3367	2,861.3367	0.0841	0.0000	2,863.4395

3.7 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

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3.7 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	0.1393	4.5917	1.3179	0.0162	0.4119	5.4400e-003	0.4173	0.1191	5.2000e-003	0.1243	0.0000	1,548.5528	1,548.5528	0.0571	0.0000	1,549.9791
Worker	0.5352	0.3351	3.8156	0.0141	1.6915	0.0103	1.7018	0.4499	9.4800e-003	0.4593	0.0000	1,271.4159	1,271.4159	0.0235	0.0000	1,272.0029
Total	0.6744	4.9268	5.1336	0.0302	2.1033	0.0157	2.1191	0.5689	0.0147	0.5836	0.0000	2,819.9687	2,819.9687	0.0805	0.0000	2,821.9820

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	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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3.7 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	0.1393	4.5917	1.3179	0.0162	0.4119	5.4400e-003	0.4173	0.1191	5.2000e-003	0.1243	0.0000	1,548.5528	1,548.5528	0.0571	0.0000	1,549.9791
Worker	0.5352	0.3351	3.8156	0.0141	1.6915	0.0103	1.7018	0.4499	9.4800e-003	0.4593	0.0000	1,271.4159	1,271.4159	0.0235	0.0000	1,272.0029
Total	0.6744	4.9268	5.1336	0.0302	2.1033	0.0157	2.1191	0.5689	0.0147	0.5836	0.0000	2,819.9687	2,819.9687	0.0805	0.0000	2,821.9820

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1346	4.5106	1.2702	0.0160	0.4103	5.3000e-003	0.4156	0.1186	5.0600e-003	0.1237	0.0000	1,532.8798	1,532.8798	0.0553	0.0000	1,534.2628
Worker	0.5017	0.3029	3.5158	0.0134	1.6850	0.0101	1.6951	0.4481	9.3000e-003	0.4574	0.0000	1,214.2945	1,214.2945	0.0212	0.0000	1,214.8235
Total	0.6363	4.8135	4.7860	0.0294	2.0953	0.0154	2.1107	0.5668	0.0144	0.5811	0.0000	2,747.1742	2,747.1742	0.0765	0.0000	2,749.0862

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1346	4.5106	1.2702	0.0160	0.4103	5.3000e-003	0.4156	0.1186	5.0600e-003	0.1237	0.0000	1,532.8798	1,532.8798	0.0553	0.0000	1,534.2628
Worker	0.5017	0.3029	3.5158	0.0134	1.6850	0.0101	1.6951	0.4481	9.3000e-003	0.4574	0.0000	1,214.2945	1,214.2945	0.0212	0.0000	1,214.8235
Total	0.6363	4.8135	4.7860	0.0294	2.0953	0.0154	2.1107	0.5668	0.0144	0.5811	0.0000	2,747.1742	2,747.1742	0.0765	0.0000	2,749.0862

3.7 Building Construction - 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					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 Building Construction - 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	0.0000	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	0.1310	4.4479	1.2382	0.0159	0.4103	5.1700e-003	0.4155	0.1186	4.9400e-003	0.1236	0.0000	1,523.9971	1,523.9971	0.0539	0.0000	1,525.3448
Worker	0.4745	0.2767	3.2700	0.0129	1.6850	9.8100e-003	1.6948	0.4481	9.0300e-003	0.4572	0.0000	1,168.4922	1,168.4922	0.0192	0.0000	1,168.9730
Total	0.6055	4.7246	4.5082	0.0288	2.0953	0.0150	2.1103	0.5668	0.0140	0.5807	0.0000	2,692.4893	2,692.4893	0.0731	0.0000	2,694.3178

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 Building Construction - 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	0.0000	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	0.1310	4.4479	1.2382	0.0159	0.4103	5.1700e-003	0.4155	0.1186	4.9400e-003	0.1236	0.0000	1,523.9971	1,523.9971	0.0539	0.0000	1,525.3448
Worker	0.4745	0.2767	3.2700	0.0129	1.6850	9.8100e-003	1.6948	0.4481	9.0300e-003	0.4572	0.0000	1,168.4922	1,168.4922	0.0192	0.0000	1,168.9730
Total	0.6055	4.7246	4.5082	0.0288	2.0953	0.0150	2.1103	0.5668	0.0140	0.5807	0.0000	2,692.4893	2,692.4893	0.0731	0.0000	2,694.3178

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1280	4.3843	1.2126	0.0158	0.4103	5.0400e-003	0.4154	0.1186	4.8200e-003	0.1235	0.0000	1,515.6354	1,515.6354	0.0526	0.0000	1,516.9499
Worker	0.4486	0.2536	3.0539	0.0125	1.6850	9.3100e-003	1.6943	0.4481	8.5700e-003	0.4567	0.0000	1,128.0446	1,128.0446	0.0175	0.0000	1,128.4830
Total	0.5765	4.6380	4.2665	0.0283	2.0953	0.0144	2.1097	0.5668	0.0134	0.5802	0.0000	2,643.6800	2,643.6800	0.0701	0.0000	2,645.4329

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1280	4.3843	1.2126	0.0158	0.4103	5.0400e-003	0.4154	0.1186	4.8200e-003	0.1235	0.0000	1,515.6354	1,515.6354	0.0526	0.0000	1,516.9499
Worker	0.4486	0.2536	3.0539	0.0125	1.6850	9.3100e-003	1.6943	0.4481	8.5700e-003	0.4567	0.0000	1,128.0446	1,128.0446	0.0175	0.0000	1,128.4830
Total	0.5765	4.6380	4.2665	0.0283	2.0953	0.0144	2.1097	0.5668	0.0134	0.5802	0.0000	2,643.6800	2,643.6800	0.0701	0.0000	2,645.4329

3.7 Building Construction - 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	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724
Total	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724

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3.7 Building Construction - 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	0.1149	3.9662	1.0940	0.0144	0.3758	4.5100e-003	0.3803	0.1086	4.3100e-003	0.1129	0.0000	1,381.5206	1,381.5206	0.0471	0.0000	1,382.6969
Worker	0.3867	0.2136	2.6234	0.0111	1.5430	7.9100e-003	1.5509	0.4104	7.2800e-003	0.4176	0.0000	1,000.4770	1,000.4770	0.0147	0.0000	1,000.8450
Total	0.5016	4.1798	3.7174	0.0255	1.9187	0.0124	1.9311	0.5190	0.0116	0.5306	0.0000	2,381.9976	2,381.9976	0.0618	0.0000	2,383.5419

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	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721
Total	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721

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3.7 Building Construction - 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	0.1149	3.9662	1.0940	0.0144	0.3758	4.5100e-003	0.3803	0.1086	4.3100e-003	0.1129	0.0000	1,381.5206	1,381.5206	0.0471	0.0000	1,382.6969
Worker	0.3867	0.2136	2.6234	0.0111	1.5430	7.9100e-003	1.5509	0.4104	7.2800e-003	0.4176	0.0000	1,000.4770	1,000.4770	0.0147	0.0000	1,000.8450
Total	0.5016	4.1798	3.7174	0.0255	1.9187	0.0124	1.9311	0.5190	0.0116	0.5306	0.0000	2,381.9976	2,381.9976	0.0618	0.0000	2,383.5419

3.8 Architectural Coating - 2023

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					
Archit. Coating	10.9341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0659	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633
Total	11.0000	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090
Total	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090

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					
Archit. Coating	10.9341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632
Total	10.9443	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090
Total	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090

3.8 Architectural Coating - 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					
Archit. Coating	3.0514					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.0687	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325
Total	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325

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					
Archit. Coating	3.0514					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.0542	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325
Total	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.752 2	8,210.752 2	0.3601	0.0000	8,219.755 2
Unmitigated	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.752 2	8,210.752 2	0.3601	0.0000	8,219.755 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,814.40	1,972.32	1669.92	4,194,986	4,194,986
Apartments Low Rise	1,620.00	1,761.00	1491.00	3,745,523	3,745,523
Apartments Mid Rise	1,375.50	1,319.50	1211.00	3,104,112	3,104,112
City Park	56.70	682.50	502.20	447,770	447,770
City Park	5.16	62.11	45.70	40,747	40,747
Convenience Market (24 Hour)	0.00	0.00	0.00		
Office Park	2,088.42	301.38	138.28	3,896,052	3,896,052
Office Park	1,354.70	195.50	89.70	2,527,264	2,527,264
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Single Family Housing	1,893.34	1,970.06	1715.24	4,339,422	4,339,422
Unenclosed Parking Structure	202.00	202.00	202.00	153,839	153,839
Total	11,332.62	9,489.77	7,707.64	24,188,972	24,188,972

4.3 Trip Type Information

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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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Unenclosed Parking Structure	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Apartments Mid Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
City Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Convenience Market (24 Hour)	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Office Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Quality Restaurant	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Regional Shopping Center	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Single Family Housing	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Unenclosed Parking Structure	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843

5.0 Energy Detail

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,475.0265	1,475.0265	0.2390	0.0290	1,489.6319
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,481.1538	1,481.1538	0.2400	0.0291	1,495.8199
NaturalGas Mitigated	0.0451	0.3971	0.2529	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.8263	445.8263	8.5500e-003	8.1700e-003	448.4756
NaturalGas Unmitigated	0.0451	0.3971	0.2529	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.8263	445.8263	8.5500e-003	8.1700e-003	448.4756

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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					
Apartments Low Rise	1.02837e+006	5.5500e-003	0.0474	0.0202	3.0000e-004		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	54.8779	54.8779	1.0500e-003	1.0100e-003	55.2040
Apartments Low Rise	1.15178e+006	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4633	61.4633	1.1800e-003	1.1300e-003	61.8285
Apartments Mid Rise	863432	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.0761	46.0761	8.8000e-004	8.4000e-004	46.3499
City Park	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
Convenience Market (24 Hour)	7950	4.0000e-005	3.9000e-004	3.3000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4242	0.4242	1.0000e-005	1.0000e-005	0.4268
Office Park	363400	1.9600e-003	0.0178	0.0150	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3924	19.3924	3.7000e-004	3.6000e-004	19.5077
Office Park	560221	3.0200e-003	0.0275	0.0231	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.8955	29.8955	5.7000e-004	5.5000e-004	30.0732
Quality Restaurant	1.585e+006	0.0171	0.1554	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.1633	169.1633	3.2400e-003	3.1000e-003	170.1685
Regional Shopping Center	15300	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6329	1.6329	3.0000e-005	3.0000e-005	1.6426
Single Family Housing	1.17872e+006	6.3600e-003	0.0543	0.0231	3.5000e-004		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	62.9007	62.9007	1.2100e-003	1.1500e-003	63.2745
Unenclosed Parking Structure	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		0.0451	0.3971	0.2529	2.4500e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.8263	445.8263	8.5400e-003	8.1800e-003	448.4756

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas 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					
Apartments Low Rise	1.02837e+006	5.5500e-003	0.0474	0.0202	3.0000e-004		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	54.8779	54.8779	1.0500e-003	1.0100e-003	55.2040
Apartments Low Rise	1.15178e+006	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4633	61.4633	1.1800e-003	1.1300e-003	61.8285
Apartments Mid Rise	863432	4.6600e-003	0.0398	0.0169	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.0761	46.0761	8.8000e-004	8.4000e-004	46.3499
City Park	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
Convenience Market (24 Hour)	7950	4.0000e-005	3.9000e-004	3.3000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4242	0.4242	1.0000e-005	1.0000e-005	0.4268
Office Park	363400	1.9600e-003	0.0178	0.0150	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3924	19.3924	3.7000e-004	3.6000e-004	19.5077
Office Park	560221	3.0200e-003	0.0275	0.0231	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.8955	29.8955	5.7000e-004	5.5000e-004	30.0732
Quality Restaurant	1.585e+006	0.0171	0.1554	0.1305	9.3000e-004		0.0118	0.0118		0.0118	0.0118	0.0000	169.1633	169.1633	3.2400e-003	3.1000e-003	170.1685
Regional Shopping Center	15300	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6329	1.6329	3.0000e-005	3.0000e-005	1.6426
Single Family Housing	1.17872e+006	6.3600e-003	0.0543	0.0231	3.5000e-004		4.3900e-003	4.3900e-003		4.3900e-003	4.3900e-003	0.0000	62.9007	62.9007	1.2100e-003	1.1500e-003	63.2745
Unenclosed Parking Structure	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		0.0451	0.3971	0.2529	2.4500e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.8263	445.8263	8.5400e-003	8.1800e-003	448.4756

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.06288e+006	98.2066	0.0159	1.9300e-003	99.1790
Apartments Low Rise	1.19042e+006	109.9914	0.0178	2.1600e-003	111.0805
Apartments Mid Rise	2.39287e+006	221.0937	0.0358	4.3400e-003	223.2830
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	65350	6.0381	9.8000e-004	1.2000e-004	6.0979
Office Park	3.3189e+006	306.6556	0.0497	6.0200e-003	309.6921
Office Park	5.11645e+006	472.7430	0.0766	9.2800e-003	477.4240
Quality Restaurant	318400	58.8383	9.5300e-003	1.1600e-003	59.4209
Regional Shopping Center	118600	21.9165	3.5500e-003	4.3000e-004	22.1335
Single Family Housing	1.96389e+006	181.4573	0.0294	3.5600e-003	183.2541
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,481.1538	0.2400	0.0291	1,495.8199

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.06288e+006	98.2066	0.0159	1.9300e-003	99.1790
Apartments Low Rise	1.19042e+006	109.9914	0.0178	2.1600e-003	111.0805
Apartments Mid Rise	2.35572e+006	217.6607	0.0353	4.2700e-003	219.8159
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	65350	6.0381	9.8000e-004	1.2000e-004	6.0979
Office Park	3.3189e+006	306.6556	0.0497	6.0200e-003	309.6921
Office Park	5.11645e+006	472.7430	0.0766	9.2800e-003	477.4240
Quality Restaurant	303820	56.1440	9.1000e-003	1.1000e-003	56.6999
Regional Shopping Center	118600	21.9165	3.5500e-003	4.3000e-004	22.1335
Single Family Housing	1.96389e+006	181.4573	0.0294	3.5600e-003	183.2541
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,475.0265	0.2390	0.0290	1,489.6319

6.0 Area Detail

6.1 Mitigation Measures Area

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	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	6.1214	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Unmitigated	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa 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	1.3985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.9812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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	0.1251					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.9812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	6.1214	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

7.0 Water Detail

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	166.8331	5.1419	0.1233	332.1106
Unmitigated	198.9529	6.4258	0.1539	405.4548

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	44.0441 / 27.7669	44.9729	1.4402	0.0345	91.2579
Apartments Mid Rise	22.8039 / 14.3764	23.2848	0.7457	0.0179	47.2489
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.226996	0.3761	0.0121	2.9000e-004	0.7653
Office Park	103.898 / 63.6793	105.4998	3.3973	0.0814	214.6777
Quality Restaurant	6.07067 / 0.38749	5.0863	0.1983	4.7300e-003	11.4549
Regional Shopping Center	1.48145 / 0.907986	1.5043	0.0484	1.1600e-003	3.0610
Single Family Housing	17.8522 / 11.2546	18.2287	0.5838	0.0140	36.9891
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		198.9529	6.4258	0.1539	405.4548

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	35.2353 / 27.7669	37.7743	1.1525	0.0276	74.8200
Apartments Mid Rise	18.2431 / 14.3764	19.5577	0.5967	0.0143	38.7382
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.29629 / 0.226996	0.3155	9.6900e-003	2.3000e-004	0.6270
Office Park	83.1183 / 63.6793	88.5185	2.7185	0.0652	175.9016
Quality Restaurant	4.85654 / 0.38749	4.0941	0.1587	3.7900e-003	9.1892
Regional Shopping Center	1.18516 / 0.907986	1.2622	0.0388	9.3000e-004	2.5081
Single Family Housing	14.2818 / 11.2546	15.3109	0.4671	0.0112	30.3264
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		166.8331	5.1418	0.1233	332.1106

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	345.1192	20.3960	0.0000	855.0181
Unmitigated	690.2383	40.7919	0.0000	1,710.0362

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	781	158.5359	9.3692	0.0000	392.7661
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Office Park	533	108.1942	6.3941	0.0000	268.0465
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		690.2383	40.7919	0.0000	1,710.0362

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	710	144.1236	8.5175	0.0000	357.0601
Apartments Mid Rise	390.5	79.2680	4.6846	0.0000	196.3830
City Park	1.405	0.2852	0.0169	0.0000	0.7066
Convenience Market (24 Hour)	7.515	1.5255	0.0902	0.0000	3.7793
Office Park	266.5	54.0971	3.1971	0.0000	134.0233
Quality Restaurant	9.125	1.8523	0.1095	0.0000	4.5890
Regional Shopping Center	9.125	1.8523	0.1095	0.0000	4.5890
Single Family Housing	306	62.1152	3.6709	0.0000	153.8879
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		345.1191	20.3960	0.0000	855.0181

9.0 Operational Offroad

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

Point Molate - Commercial Heavy - Full Build Out - Mitigated Operational - Contra Costa County, Annual

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

**Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	354.57	1000sqft	4.27	354,570.00	0
Office Park	230.00	1000sqft	2.77	230,000.00	0
Unenclosed Parking Structure	100.00	Space	0.00	40,000.00	0
City Park	30.00	Acre	30.00	1,306,800.00	0
City Park	2.73	Acre	2.73	118,918.80	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Apartments Low Rise	336.00	Dwelling Unit	11.03	336,000.00	961
Apartments Low Rise	300.00	Dwelling Unit	9.85	300,000.00	858
Apartments Mid Rise	350.00	Dwelling Unit	4.83	350,000.00	1001
Single Family Housing	274.00	Dwelling Unit	46.74	493,200.00	784
Convenience Market (24 Hour)	5.00	1000sqft	0.00	5,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year		2024	
Utility Company	Pacific Gas & Electric Company				

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CO2 Intensity (lb/MWhr)	203.7	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004
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1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Project operational year = 2024. Updated electricity emission factors to incorporate RPS for 2024.

Land Use - CalEEMod acreage scaled to match project acreage of 80 acres for Residential, office, retail and restaurant.

Construction Phase - Construction duration is from 2/1/2021 to 11/30/2028 based on Suncal schedule. Total construction days match inputs provided by AES. Exact start and end dates are defined by CalEEMod and won't exactly match AES/SunCal inputs.

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment -

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment -

Trips and VMT - CalEEMod default trip rates

Demolition - Input provided by AES/developer.

Grading - Total soil quantity exported is 355,000 cu yd. Grading area for bay trail development is 2.73 acres. Grading area for project is 90 acres.

Vehicle Emission Factors - EMFAC 2017 Emission Factors. See Air Quality Appendix Table A12 for EMFAC2017 inputs.

Road Dust - Updated silt loading factor is specific to Contra Costa county. See Air Quality Appendix Table EF2 for details.

Consumer Products - Consumer Product emission factors are updated to reflect statewide 2017 factors. See Air Quality Appendix Table A13 for further details.

Landscape Equipment - Total landscaping days set to zero

Energy Use - See Air Quality Appendix Table A15 for details on updated energy intensity values.

Solid Waste - See Air Quality Appendix Table A16 for details on updated solid waste generation rates.

Area Mitigation - No mitigation measure

Energy Mitigation - No mitigation measure

Water Mitigation - No mitigation measure

Waste Mitigation - No mitigation measure

Stationary Sources - Emergency Generators and Fire Pumps - Emergency generators evaluated outside of CalEEMod.

Table Name	Column Name	Default Value	New Value
tblApplianceMitigation	PercentImprovement	30.00	0.00

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tblApplianceMitigation	PercentImprovement	30.00	0.00
tblApplianceMitigation	PercentImprovement	30.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	998,460.00	1,025,460.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,995,380.00	3,076,380.00
tblAreaCoating	Area_Residential_Exterior	998460	1025460
tblAreaCoating	Area_Residential_Interior	2995380	3076380
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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	220.00	110.00
tblConstructionPhase	NumDays	3,100.00	1,550.00
tblConstructionPhase	NumDays	200.00	78.00
tblConstructionPhase	NumDays	310.00	261.00
tblConstructionPhase	NumDays	310.00	262.00

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tblConstructionPhase	NumDays	220.00	125.00
tblConstructionPhase	NumDays	120.00	89.00
tblConsumerProducts	ROG_EF	2.14E-05	1.55E-05
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	741.44	667.30
tblEnergyUse	LightingElect	4.88	5.88
tblEnergyUse	LightingElect	3.47	3.77
tblEnergyUse	LightingElect	5.34	5.61
tblEnergyUse	LightingElect	4.88	5.12
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	1.75	1.14
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	1.17	1.00
tblEnergyUse	NT24NG	128.02	128.00
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	T24E	233.06	1,429.93
tblEnergyUse	T24E	426.45	1,002.38
tblEnergyUse	T24E	2.24	2.90
tblEnergyUse	T24E	4.27	4.93
tblEnergyUse	T24E	2.67	2.90
tblEnergyUse	T24E	2.24	2.45
tblEnergyUse	T24E	217.68	2,827.49

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tblEnergyUse	T24NG	17,734.50	12,676.09
tblEnergyUse	T24NG	6,115.43	4,370.70
tblEnergyUse	T24NG	3.90	5.00
tblEnergyUse	T24NG	17.44	19.36
tblEnergyUse	T24NG	39.90	41.30
tblEnergyUse	T24NG	3.90	4.48
tblEnergyUse	T24NG	39,708.76	26,982.27
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	95.40	600.00
tblFireplaces	NumberGas	52.50	0.00
tblFireplaces	NumberGas	68.50	0.00
tblFireplaces	NumberNoFireplace	25.44	0.00
tblFireplaces	NumberNoFireplace	14.00	0.00
tblFireplaces	NumberNoFireplace	21.92	0.00
tblFireplaces	NumberWood	108.12	0.00
tblFireplaces	NumberWood	59.50	0.00
tblFireplaces	NumberWood	117.82	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02

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tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18

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tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003

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tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01

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tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004

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tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblGrading	AcresOfGrading	1,696.50	90.00
tblGrading	AcresOfGrading	622.25	2.73
tblGrading	MaterialExported	0.00	344,550.00
tblGrading	MaterialExported	0.00	10,450.00
tblLandUse	LotAcreage	5.28	2.77
tblLandUse	LotAcreage	8.14	4.27
tblLandUse	LotAcreage	0.90	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	18.75	9.85
tblLandUse	LotAcreage	21.00	11.03
tblLandUse	LotAcreage	9.21	4.83
tblLandUse	LotAcreage	88.96	46.74
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblOffRoadEquipment	HorsePower	402.00	367.00
tblOffRoadEquipment	LoadFactor	0.38	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	641.35	203.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblRoadDust	RoadSiltLoading	0.1	0.047
tblSolidWaste	SolidWasteGenerationRate	292.56	1,420.00
tblSolidWaste	SolidWasteGenerationRate	161.00	781.00
tblSolidWaste	SolidWasteGenerationRate	543.65	533.00
tblSolidWaste	SolidWasteGenerationRate	21.00	18.25
tblSolidWaste	SolidWasteGenerationRate	329.28	612.00
tblTripsAndVMT	HaulingTripNumber	34,067.00	43,069.00
tblTripsAndVMT	HaulingTripNumber	1,033.00	1,306.00
tblVehicleEF	HHD	0.41	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.58	6.28
tblVehicleEF	HHD	0.84	0.40
tblVehicleEF	HHD	2.87	5.3000e-003
tblVehicleEF	HHD	4,335.05	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.83	5.34
tblVehicleEF	HHD	1.90	2.66
tblVehicleEF	HHD	19.75	2.36

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tblVehicleEF	HHD	7.9210e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	7.5790e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.41	0.42
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3500e-004	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.48	0.49
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.08	0.00

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tblVehicleEF	HHD	0.39	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.15	6.28
tblVehicleEF	HHD	0.85	0.40
tblVehicleEF	HHD	2.61	5.3000e-003
tblVehicleEF	HHD	4,592.60	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	14.28	5.34
tblVehicleEF	HHD	1.83	2.66
tblVehicleEF	HHD	19.74	2.36
tblVehicleEF	HHD	6.6780e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	6.3890e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.39	0.42
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.09	0.03

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tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3100e-004	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.45	0.49
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.45	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.17	6.28
tblVehicleEF	HHD	0.83	0.40
tblVehicleEF	HHD	3.11	5.3000e-003
tblVehicleEF	HHD	3,979.39	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.22	5.34
tblVehicleEF	HHD	1.93	2.66
tblVehicleEF	HHD	19.77	2.36
tblVehicleEF	HHD	9.6380e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

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tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	9.2210e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.51	0.49
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	LDA	3.2820e-003	1.8000e-003
tblVehicleEF	LDA	4.5120e-003	0.05
tblVehicleEF	LDA	0.48	0.52

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tblVehicleEF	LDA	1.04	2.15
tblVehicleEF	LDA	229.87	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.2620e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.3010e-003	2.4000e-003
tblVehicleEF	LDA	5.4600e-004	5.0000e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	3.7280e-003	1.8000e-003
tblVehicleEF	LDA	3.6390e-003	0.05

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tblVehicleEF	LDA	0.58	0.52
tblVehicleEF	LDA	0.80	2.15
tblVehicleEF	LDA	251.31	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	9.3650e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.21
tblVehicleEF	LDA	2.5170e-003	2.4000e-003
tblVehicleEF	LDA	5.4200e-004	5.0000e-004
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.23
tblVehicleEF	LDA	3.1830e-003	1.8000e-003

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tblVehicleEF	LDA	5.1540e-003	0.05
tblVehicleEF	LDA	0.47	0.52
tblVehicleEF	LDA	1.24	2.15
tblVehicleEF	LDA	226.93	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	8.0170e-003	6.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.2720e-003	2.4000e-003
tblVehicleEF	LDA	5.4900e-004	5.0000e-004
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.23

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tblVehicleEF	LDT1	6.8390e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.88	0.87
tblVehicleEF	LDT1	2.31	2.34
tblVehicleEF	LDT1	287.67	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.13	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.15	0.32
tblVehicleEF	LDT1	2.8860e-003	2.8000e-003
tblVehicleEF	LDT1	7.0800e-004	6.0000e-004
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08

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tblVehicleEF	LDT1	0.16	0.35
tblVehicleEF	LDT1	7.6930e-003	3.8000e-003
tblVehicleEF	LDT1	8.8990e-003	0.07
tblVehicleEF	LDT1	1.05	0.87
tblVehicleEF	LDT1	1.76	2.34
tblVehicleEF	LDT1	313.61	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.11	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.12	0.32
tblVehicleEF	LDT1	3.1480e-003	2.8000e-003
tblVehicleEF	LDT1	6.9900e-004	6.0000e-004
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.03	0.02

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tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.13	0.35
tblVehicleEF	LDT1	6.6770e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.87	0.87
tblVehicleEF	LDT1	2.76	2.34
tblVehicleEF	LDT1	284.11	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.10	0.07
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8500e-003	2.8000e-003
tblVehicleEF	LDT1	7.1600e-004	6.0000e-004
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08

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tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT2	4.4150e-003	2.9000e-003
tblVehicleEF	LDT2	5.8360e-003	0.06
tblVehicleEF	LDT2	0.62	0.70
tblVehicleEF	LDT2	1.34	2.74
tblVehicleEF	LDT2	323.78	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.2420e-003	3.0000e-003
tblVehicleEF	LDT2	7.6900e-004	7.0000e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12

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tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.0080e-003	2.9000e-003
tblVehicleEF	LDT2	4.7080e-003	0.06
tblVehicleEF	LDT2	0.75	0.70
tblVehicleEF	LDT2	1.03	2.74
tblVehicleEF	LDT2	353.38	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	3.5390e-003	3.0000e-003
tblVehicleEF	LDT2	7.6400e-004	7.0000e-004
tblVehicleEF	LDT2	0.09	0.06

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tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.32
tblVehicleEF	LDT2	4.2820e-003	2.9000e-003
tblVehicleEF	LDT2	6.6640e-003	0.06
tblVehicleEF	LDT2	0.60	0.70
tblVehicleEF	LDT2	1.58	2.74
tblVehicleEF	LDT2	319.73	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.2010e-003	3.0000e-003
tblVehicleEF	LDT2	7.7400e-004	7.0000e-004

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tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.99	0.77
tblVehicleEF	LHD1	2.29	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.39	0.94
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01

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tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.01	0.77
tblVehicleEF	LHD1	2.10	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85

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tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.33	0.94
tblVehicleEF	LHD1	0.87	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.3800e-004	1.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003

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tblVehicleEF	LHD1	0.16	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.24	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.77
tblVehicleEF	LHD1	2.47	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.42	0.94
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4500e-004	1.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.0300e-003	6.9000e-003
tblVehicleEF	LHD2	5.6740e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	1.02	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.77	0.98
tblVehicleEF	LHD2	0.40	0.17

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tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04

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tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.1180e-003	6.9000e-003
tblVehicleEF	LHD2	5.3450e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	0.94	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.74	0.98
tblVehicleEF	LHD2	0.38	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12

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tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4200e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	6.9590e-003	6.9000e-003
tblVehicleEF	LHD2	5.9550e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.64
tblVehicleEF	LHD2	1.09	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.78	0.98
tblVehicleEF	LHD2	0.42	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01

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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.16	0.26
tblVehicleEF	MCY	19.70	20.00

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tblVehicleEF	MCY	10.22	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.27	2.29
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	2.1230e-003	2.1000e-003
tblVehicleEF	MCY	6.8900e-004	6.0000e-004
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.81	2.82
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.43	2.15
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.13	0.26

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tblVehicleEF	MCY	18.98	20.00
tblVehicleEF	MCY	8.86	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.02	1.16
tblVehicleEF	MCY	0.29	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.18	2.29
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.83	1.98
tblVehicleEF	MCY	2.1090e-003	2.1000e-003
tblVehicleEF	MCY	6.5400e-004	6.0000e-004
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.70	2.82
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.99	2.15
tblVehicleEF	MCY	0.47	0.34

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tblVehicleEF	MCY	0.19	0.26
tblVehicleEF	MCY	21.47	20.00
tblVehicleEF	MCY	11.78	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.25	1.16
tblVehicleEF	MCY	0.35	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.37	2.29
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.62	1.98
tblVehicleEF	MCY	2.1550e-003	2.1000e-003
tblVehicleEF	MCY	7.2600e-004	6.0000e-004
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.94	2.82
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.85	2.15

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tblVehicleEF	MDV	8.6020e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.97	0.82
tblVehicleEF	MDV	2.71	3.10
tblVehicleEF	MDV	443.89	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.24	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4430e-003	3.8000e-003
tblVehicleEF	MDV	1.0620e-003	8.0000e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06

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tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	9.7400e-003	3.8000e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.18	0.82
tblVehicleEF	MDV	2.08	3.10
tblVehicleEF	MDV	483.31	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.21	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.38
tblVehicleEF	MDV	4.8400e-003	3.8000e-003
tblVehicleEF	MDV	1.0500e-003	8.0000e-004
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.04	0.02

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tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.42
tblVehicleEF	MDV	8.3570e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.96	0.82
tblVehicleEF	MDV	3.22	3.10
tblVehicleEF	MDV	438.49	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.23	0.38
tblVehicleEF	MDV	4.3890e-003	3.8000e-003
tblVehicleEF	MDV	1.0710e-003	8.0000e-004
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08

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tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.25	0.42
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.46	0.85
tblVehicleEF	MH	4.96	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.34	1.52
tblVehicleEF	MH	0.78	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.6600e-004	2.0000e-004

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tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.32	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.52	0.85
tblVehicleEF	MH	4.45	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.26	1.52
tblVehicleEF	MH	0.72	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01

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tblVehicleEF	MH	0.27	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5800e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.41	0.85
tblVehicleEF	MH	5.39	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.38	1.52
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7400e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.4400e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.37	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.47	1.19
tblVehicleEF	MHD	134.03	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.38	0.52
tblVehicleEF	MHD	1.11	1.47
tblVehicleEF	MHD	10.23	1.66
tblVehicleEF	MHD	1.4100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003

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tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.3500e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	1.2910e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0200e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.01	4.0000e-003
tblVehicleEF	MHD	4.5430e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.43
tblVehicleEF	MHD	0.36	0.27

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

tblVehicleEF	MHD	4.98	1.19
tblVehicleEF	MHD	142.13	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.40	0.52
tblVehicleEF	MHD	1.07	1.47
tblVehicleEF	MHD	10.17	1.66
tblVehicleEF	MHD	1.1900e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.1400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	1.3670e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9400e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02

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tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.3600e-003	2.1000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.94	1.19
tblVehicleEF	MHD	123.22	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.37	0.52
tblVehicleEF	MHD	1.13	1.47
tblVehicleEF	MHD	10.28	1.66
tblVehicleEF	MHD	1.7100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.6400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02

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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	1.1890e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.3020e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.53	0.98
tblVehicleEF	OBUS	5.50	2.88
tblVehicleEF	OBUS	71.68	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.14	0.23
tblVehicleEF	OBUS	0.75	1.13
tblVehicleEF	OBUS	2.17	0.68
tblVehicleEF	OBUS	1.3000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13

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tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.34	0.14
tblVehicleEF	OBUS	6.9600e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.37	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.5680e-003	9.0000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.24	0.50

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tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	4.94	2.88
tblVehicleEF	OBUS	74.94	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.15	0.23
tblVehicleEF	OBUS	0.71	1.13
tblVehicleEF	OBUS	2.10	0.68
tblVehicleEF	OBUS	1.1000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.32	0.14
tblVehicleEF	OBUS	7.2700e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7700e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003

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tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.35	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.0920e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.52	0.98
tblVehicleEF	OBUS	5.95	2.88
tblVehicleEF	OBUS	67.19	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.13	0.23
tblVehicleEF	OBUS	0.77	1.13
tblVehicleEF	OBUS	2.23	0.68
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003

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tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.36	0.14
tblVehicleEF	OBUS	6.5300e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9500e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1030e-003	2.6000e-003
tblVehicleEF	SBUS	0.06	1.3000e-003
tblVehicleEF	SBUS	2.09	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.33	0.19
tblVehicleEF	SBUS	1,440.18	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.22	2.23
tblVehicleEF	SBUS	4.78	2.75

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tblVehicleEF	SBUS	19.18	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2700e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	8.0000e-003
tblVehicleEF	SBUS	0.87	0.02

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tblVehicleEF	SBUS	6.1440e-003	2.6000e-003
tblVehicleEF	SBUS	0.05	1.3000e-003
tblVehicleEF	SBUS	1.93	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	0.91	0.19
tblVehicleEF	SBUS	1,522.68	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.64	2.23
tblVehicleEF	SBUS	4.59	2.75
tblVehicleEF	SBUS	19.17	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	9.5970e-003	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.24	0.09
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.05	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003

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tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2100e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.33	0.12
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.06	8.0000e-003
tblVehicleEF	SBUS	0.88	0.02
tblVehicleEF	SBUS	6.0730e-003	2.6000e-003
tblVehicleEF	SBUS	0.07	1.3000e-003
tblVehicleEF	SBUS	2.33	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.66	0.19
tblVehicleEF	SBUS	1,326.25	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	12.63	2.23
tblVehicleEF	SBUS	4.86	2.75
tblVehicleEF	SBUS	19.19	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003

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tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.3300e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	8.0000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.07	1.5000e-003
tblVehicleEF	UBUS	4.04	8.13
tblVehicleEF	UBUS	11.74	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.66	0.64
tblVehicleEF	UBUS	12.20	0.03

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tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.98	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7290e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.65	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	1.08	5.8000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.06	1.5000e-003
tblVehicleEF	UBUS	4.11	8.13
tblVehicleEF	UBUS	9.17	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20

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tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.41	0.64
tblVehicleEF	UBUS	12.07	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.39	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.85	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.6840e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.66	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.93	5.8000e-003
tblVehicleEF	UBUS	0.23	1.10
tblVehicleEF	UBUS	0.08	1.5000e-003

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tblVehicleEF	UBUS	4.00	8.13
tblVehicleEF	UBUS	14.08	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.77	0.64
tblVehicleEF	UBUS	12.31	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.10	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7700e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.64	1.12
tblVehicleEF	UBUS	0.03	1.0000e-004

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tblVehicleEF	UBUS	1.20	5.8000e-003
tblVehicleTrips	CC_TTP	0.00	80.10
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	0.90
tblVehicleTrips	DV_TP	18.00	40.00
tblVehicleTrips	DV_TP	35.00	40.00
tblVehicleTrips	DV_TP	0.00	15.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	0.00	61.00
tblVehicleTrips	PR_TP	38.00	60.00
tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	PR_TP	0.00	24.00
tblVehicleTrips	ST_TR	7.16	5.87
tblVehicleTrips	ST_TR	6.39	3.77
tblVehicleTrips	ST_TR	863.10	0.00
tblVehicleTrips	ST_TR	1.64	0.85
tblVehicleTrips	ST_TR	94.36	24.19
tblVehicleTrips	ST_TR	49.97	26.98
tblVehicleTrips	ST_TR	9.91	7.19
tblVehicleTrips	ST_TR	0.00	2.02
tblVehicleTrips	SU_TR	6.07	4.97
tblVehicleTrips	SU_TR	5.86	3.46
tblVehicleTrips	SU_TR	758.45	0.00
tblVehicleTrips	SU_TR	0.76	0.39
tblVehicleTrips	SU_TR	72.16	18.50
tblVehicleTrips	SU_TR	25.24	13.63

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tblVehicleTrips	SU_TR	8.62	6.26
tblVehicleTrips	SU_TR	0.00	2.02
tblVehicleTrips	WD_TR	6.59	5.40
tblVehicleTrips	WD_TR	6.65	3.93
tblVehicleTrips	WD_TR	737.99	0.00
tblVehicleTrips	WD_TR	11.42	5.89
tblVehicleTrips	WD_TR	89.95	23.06
tblVehicleTrips	WD_TR	42.70	23.06
tblVehicleTrips	WD_TR	9.52	6.91
tblVehicleTrips	WD_TR	0.00	2.02
tblWater	IndoorWaterUseRate	41,437,960.30	44,044,121.32
tblWater	OutdoorWaterUseRate	26,123,931.49	27,766,946.05
tblWater	OutdoorWaterUseRate	38,997,184.57	0.00
tblWoodstoves	NumberCatalytic	12.72	0.00
tblWoodstoves	NumberCatalytic	7.00	0.00
tblWoodstoves	NumberCatalytic	10.96	0.00
tblWoodstoves	NumberNoncatalytic	12.72	0.00
tblWoodstoves	NumberNoncatalytic	7.00	0.00
tblWoodstoves	NumberNoncatalytic	10.96	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

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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					
2021	1.2161	16.2072	8.5517	0.0283	1.8482	0.5252	2.3734	0.8787	0.4842	1.3629	0.0000	2,597.7828	2,597.7828	0.4832	0.0000	2,609.8618
2022	0.7740	8.8620	6.2797	0.0184	1.1261	0.3088	1.4349	0.4836	0.2844	0.7680	0.0000	1,658.7579	1,658.7579	0.3860	0.0000	1,668.4089
2023	12.0286	8.0757	9.0559	0.0378	2.3097	0.1613	2.4710	0.6509	0.1525	0.8034	0.0000	3,476.7066	3,476.7066	0.2045	0.0000	3,481.8195
2024	3.9457	6.8111	7.4952	0.0343	2.1344	0.1021	2.2365	0.5772	0.0963	0.6735	0.0000	3,171.5239	3,171.5239	0.1542	0.0000	3,175.3781
2025	0.8147	6.4407	6.8851	0.0329	2.0953	0.0843	2.1796	0.5668	0.0791	0.6459	0.0000	3,049.8291	3,049.8291	0.1476	0.0000	3,053.5197
2026	0.7839	6.3519	6.6073	0.0323	2.0953	0.0838	2.1792	0.5668	0.0787	0.6455	0.0000	2,995.1442	2,995.1442	0.1443	0.0000	2,998.7513
2027	0.7550	6.2653	6.3655	0.0318	2.0953	0.0832	2.1785	0.5668	0.0782	0.6449	0.0000	2,946.3349	2,946.3349	0.1413	0.0000	2,949.8664
2028	0.6650	5.6699	5.6395	0.0287	1.9187	0.0755	1.9942	0.5190	0.0709	0.5899	0.0000	2,659.1414	2,659.1414	0.1269	0.0000	2,662.3144
Maximum	12.0286	16.2072	9.0559	0.0378	2.3097	0.5252	2.4710	0.8787	0.4842	1.3629	0.0000	3,476.7066	3,476.7066	0.4832	0.0000	3,481.8195

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2.1 Overall Construction

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					
2021	0.4376	6.6648	8.7730	0.0283	1.0400	0.0969	1.1369	0.4514	0.0913	0.5428	0.0000	2,597.781 2	2,597.781 2	0.4832	0.0000	2,609.860 2
2022	0.3618	3.8954	7.0112	0.0184	0.7210	0.1010	0.8220	0.2729	0.0943	0.3672	0.0000	1,658.756 5	1,658.756 5	0.3860	0.0000	1,668.407 5
2023	11.7640	5.5514	9.3498	0.0378	2.2555	0.0305	2.2860	0.6215	0.0290	0.6504	0.0000	3,476.706 0	3,476.706 0	0.2045	0.0000	3,481.818 9
2024	3.7814	5.2381	7.6667	0.0343	2.1344	0.0217	2.1560	0.5772	0.0206	0.5978	0.0000	3,171.523 6	3,171.523 6	0.1542	0.0000	3,175.377 7
2025	0.6791	5.1051	7.0646	0.0329	2.0953	0.0207	2.1160	0.5668	0.0197	0.5864	0.0000	3,049.828 8	3,049.828 8	0.1476	0.0000	3,053.519 4
2026	0.6483	5.0163	6.7868	0.0323	2.0953	0.0203	2.1156	0.5668	0.0193	0.5861	0.0000	2,995.143 8	2,995.143 8	0.1443	0.0000	2,998.751 0
2027	0.6193	4.9296	6.5450	0.0318	2.0953	0.0197	2.1150	0.5668	0.0187	0.5855	0.0000	2,946.334 5	2,946.334 5	0.1413	0.0000	2,949.866 0
2028	0.5408	4.4468	5.8039	0.0287	1.9187	0.0173	1.9360	0.5190	0.0165	0.5355	0.0000	2,659.141 1	2,659.141 1	0.1269	0.0000	2,662.314 0
Maximum	11.7640	6.6648	9.3498	0.0378	2.2555	0.1010	2.2860	0.6215	0.0943	0.6504	0.0000	3,476.706 0	3,476.706 0	0.4832	0.0000	3,481.818 9

	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	10.25	36.85	-3.73	0.00	8.11	76.97	13.87	13.88	76.64	27.43	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	2-1-2021	4-30-2021	3.6175	0.8996
2	5-1-2021	7-31-2021	5.8880	2.3394

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3	8-1-2021	10-31-2021	4.6736	2.2709
4	11-1-2021	1-31-2022	5.0925	2.4874
5	2-1-2022	4-30-2022	4.8333	2.2298
6	5-1-2022	7-31-2022	1.6509	0.6295
7	8-1-2022	10-31-2022	1.4097	0.3883
8	11-1-2022	1-31-2023	2.2663	1.0905
9	2-1-2023	4-30-2023	2.3086	1.5996
10	5-1-2023	7-31-2023	1.9569	1.5168
11	8-1-2023	10-31-2023	7.8004	7.1274
12	11-1-2023	1-31-2024	10.7532	9.9818
13	2-1-2024	4-30-2024	1.9604	1.5598
14	5-1-2024	7-31-2024	1.8879	1.4820
15	8-1-2024	10-31-2024	1.8973	1.4914
16	11-1-2024	1-31-2025	1.8924	1.4984
17	2-1-2025	4-30-2025	1.7775	1.4191
18	5-1-2025	7-31-2025	1.8201	1.4497
19	8-1-2025	10-31-2025	1.8289	1.4585
20	11-1-2025	1-31-2026	1.8356	1.4652
21	2-1-2026	4-30-2026	1.7477	1.3893
22	5-1-2026	7-31-2026	1.7903	1.4198
23	8-1-2026	10-31-2026	1.7986	1.4281
24	11-1-2026	1-31-2027	1.8047	1.4342
25	2-1-2027	4-30-2027	1.7189	1.3605
26	5-1-2027	7-31-2027	1.7615	1.3910
27	8-1-2027	10-31-2027	1.7693	1.3988
28	11-1-2027	1-31-2028	1.7756	1.4051
29	2-1-2028	4-30-2028	1.7124	1.3500

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30	5-1-2028	7-31-2028	1.7359	1.3655
31	8-1-2028	9-30-2028	1.1510	0.9054
		Highest	10.7532	9.9818

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	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	2,984.0938	2,984.0938	0.2175	0.0562	3,006.2715
Mobile	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.7522	8,210.7522	0.3601	0.0000	8,219.7552
Waste						0.0000	0.0000		0.0000	0.0000	690.2383	0.0000	690.2383	40.7919	0.0000	1,710.0362
Water						0.0000	0.0000		0.0000	0.0000	62.3469	136.6060	198.9529	6.4258	0.1539	405.4548
Total	10.4144	7.7386	30.7663	0.1000	5.1752	0.2105	5.3857	1.4699	0.2058	1.6757	752.5852	11,481.2592	12,233.8444	47.7982	0.2128	13,492.2150

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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	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	2,984.0938	2,984.0938	0.2175	0.0562	3,006.2715
Mobile	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.7522	8,210.7522	0.3601	0.0000	8,219.7552
Waste						0.0000	0.0000		0.0000	0.0000	690.2383	0.0000	690.2383	40.7919	0.0000	1,710.0362
Water						0.0000	0.0000		0.0000	0.0000	62.3469	121.2645	183.6114	6.4233	0.1536	389.9614
Total	10.4144	7.7386	30.7663	0.1000	5.1752	0.2105	5.3857	1.4699	0.2058	1.6757	752.5852	11,465.9176	12,218.5028	47.7957	0.2125	13,476.7216

	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	0.13	0.13	0.01	0.15	0.11

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2021	5/19/2021	5	78	
2	Site Preparation	Site Preparation	3/1/2021	7/1/2021	5	89	
3	Grading	Grading	4/1/2021	3/31/2022	5	261	
4	Paving	Paving	1/1/2022	6/24/2022	5	125	
5	Bay Trail Grading	Grading	3/1/2022	3/1/2023	5	262	
6	Building Construction	Building Construction	12/23/2022	11/30/2028	5	1550	
7	Architectural Coating	Architectural Coating	9/1/2023	2/1/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 3,076,380; Residential Outdoor: 1,025,460; Non-Residential Indoor: 944,355; Non-Residential Outdoor: 314,785; Striped Parking Area: 2,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	6	8.00	367	0.48

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Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Bay Trail Grading	Excavators	1	6.00	158	0.38
Bay Trail Grading	Graders	1	6.00	187	0.41
Bay Trail Grading	Off-Highway Trucks	1	8.00	367	0.48
Bay Trail Grading	Paving Equipment	1	8.00	132	0.36
Bay Trail Grading	Plate Compactors	1	8.00	8	0.43
Bay Trail Grading	Rubber Tired Dozers	1	6.00	247	0.40
Bay Trail Grading	Scrapers	2	8.00	367	0.48
Bay Trail Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	8	6.00	78	0.48

Trips and VMT

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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
Demolition	6	15.00	0.00	227.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	30.00	0.00	43,069.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Bay Trail Grading	9	23.00	0.00	1,306.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,628.00	478.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	326.00	0.00	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

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

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					0.0246	0.0000	0.0246	3.7300e-003	0.0000	3.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1234	1.2262	0.8410	1.5100e-003		0.0605	0.0605		0.0562	0.0562	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361
Total	0.1234	1.2262	0.8410	1.5100e-003	0.0246	0.0605	0.0851	3.7300e-003	0.0562	0.0599	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

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					0.0111	0.0000	0.0111	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.0781	0.9079	1.5100e-003		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360
Total	0.0180	0.0781	0.9079	1.5100e-003	0.0111	2.4000e-003	0.0135	1.6800e-003	2.4000e-003	4.0800e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

3.3 Site Preparation - 2021

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					0.8040	0.0000	0.8040	0.4419	0.0000	0.4419	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1730	1.8021	0.9414	1.6900e-003		0.0910	0.0910		0.0837	0.0837	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920
Total	0.1730	1.8021	0.9414	1.6900e-003	0.8040	0.0910	0.8949	0.4419	0.0837	0.5256	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

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					0.3618	0.0000	0.3618	0.1989	0.0000	0.1989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.0898	0.9287	1.6900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918
Total	0.0207	0.0898	0.9287	1.6900e-003	0.3618	2.7600e-003	0.3645	0.1989	2.7600e-003	0.2016	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

3.4 Grading - 2021

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					0.6409	0.0000	0.6409	0.3312	0.0000	0.3312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7790	8.7873	5.8014	0.0121		0.3596	0.3596		0.3308	0.3308	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347
Total	0.7790	8.7873	5.8014	0.0121	0.6409	0.3596	1.0005	0.3312	0.3308	0.6621	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

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					0.2884	0.0000	0.2884	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2582	2.1053	5.9685	0.0121		0.0776	0.0776		0.0727	0.0727	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334
Total	0.2582	2.1053	5.9685	0.0121	0.2884	0.0776	0.3660	0.1490	0.0727	0.2218	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

3.4 Grading - 2022

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					0.2404	0.0000	0.2404	0.1111	0.0000	0.1111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2209	2.3878	1.7454	3.9300e-003		0.0970	0.0970		0.0892	0.0892	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322
Total	0.2209	2.3878	1.7454	3.9300e-003	0.2404	0.0970	0.3374	0.1111	0.0892	0.2003	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

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					0.1082	0.0000	0.1082	0.0500	0.0000	0.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0786	0.5995	1.9088	3.9300e-003		0.0220	0.0220		0.0207	0.0207	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318
Total	0.0786	0.5995	1.9088	3.9300e-003	0.1082	0.0220	0.1302	0.0500	0.0207	0.0706	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

3.5 Paving - 2022

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

3.6 Bay Trail Grading - 2022

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					0.4960	0.0000	0.4960	0.2720	0.0000	0.2720	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4053	4.1437	3.0396	7.4600e-003		0.1689	0.1689		0.1555	0.1555	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293
Total	0.4053	4.1437	3.0396	7.4600e-003	0.4960	0.1689	0.6650	0.2720	0.1555	0.4275	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

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					0.2232	0.0000	0.2232	0.1224	0.0000	0.1224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1395	1.0055	3.6043	7.4600e-003		0.0384	0.0384		0.0361	0.0361	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286
Total	0.1395	1.0055	3.6043	7.4600e-003	0.2232	0.0384	0.2616	0.1224	0.0361	0.1585	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286

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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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

3.6 Bay Trail Grading - 2023

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					0.0986	0.0000	0.0986	0.0535	0.0000	0.0535	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.7283	0.5768	1.4700e-003		0.0293	0.0293		0.0270	0.0270	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717
Total	0.0740	0.7283	0.5768	1.4700e-003	0.0986	0.0293	0.1279	0.0535	0.0270	0.0805	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717

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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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

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					0.0444	0.0000	0.0444	0.0241	0.0000	0.0241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.1874	0.7054	1.4700e-003		7.1300e-003	7.1300e-003		6.7200e-003	6.7200e-003	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716
Total	0.0269	0.1874	0.7054	1.4700e-003	0.0444	7.1300e-003	0.0515	0.0241	6.7200e-003	0.0308	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716

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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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

3.7 Building Construction - 2022

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	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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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	4.3800e-003	0.1400	0.0353	3.8000e-004	9.4300e-003	2.9000e-004	9.7200e-003	2.7300e-003	2.8000e-004	3.0000e-003	0.0000	36.7183	36.7183	1.6300e-003	0.0000	36.7591
Worker	0.0141	9.4800e-003	0.1028	3.5000e-004	0.0387	2.5000e-004	0.0390	0.0103	2.3000e-004	0.0105	0.0000	31.5607	31.5607	6.7000e-004	0.0000	31.5774
Total	0.0184	0.1495	0.1381	7.3000e-004	0.0482	5.4000e-004	0.0487	0.0130	5.1000e-004	0.0135	0.0000	68.2790	68.2790	2.3000e-003	0.0000	68.3365

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	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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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	4.3800e-003	0.1400	0.0353	3.8000e-004	9.4300e-003	2.9000e-004	9.7200e-003	2.7300e-003	2.8000e-004	3.0000e-003	0.0000	36.7183	36.7183	1.6300e-003	0.0000	36.7591
Worker	0.0141	9.4800e-003	0.1028	3.5000e-004	0.0387	2.5000e-004	0.0390	0.0103	2.3000e-004	0.0105	0.0000	31.5607	31.5607	6.7000e-004	0.0000	31.5774
Total	0.0184	0.1495	0.1381	7.3000e-004	0.0482	5.4000e-004	0.0487	0.0130	5.1000e-004	0.0135	0.0000	68.2790	68.2790	2.3000e-003	0.0000	68.3365

3.7 Building Construction - 2023

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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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	0.1431	4.6177	1.3639	0.0162	0.4087	5.5100e-003	0.4142	0.1182	5.2700e-003	0.1234	0.0000	1,546.8359	1,546.8359	0.0582	0.0000	1,548.2905
Worker	0.5676	0.3688	4.0946	0.0145	1.6786	0.0104	1.6890	0.4464	9.6000e-003	0.4560	0.0000	1,314.5008	1,314.5008	0.0259	0.0000	1,315.1489
Total	0.7107	4.9865	5.4585	0.0307	2.0873	0.0159	2.1032	0.5646	0.0149	0.5795	0.0000	2,861.3367	2,861.3367	0.0841	0.0000	2,863.4395

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	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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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	0.1431	4.6177	1.3639	0.0162	0.4087	5.5100e-003	0.4142	0.1182	5.2700e-003	0.1234	0.0000	1,546.8359	1,546.8359	0.0582	0.0000	1,548.2905
Worker	0.5676	0.3688	4.0946	0.0145	1.6786	0.0104	1.6890	0.4464	9.6000e-003	0.4560	0.0000	1,314.5008	1,314.5008	0.0259	0.0000	1,315.1489
Total	0.7107	4.9865	5.4585	0.0307	2.0873	0.0159	2.1032	0.5646	0.0149	0.5795	0.0000	2,861.3367	2,861.3367	0.0841	0.0000	2,863.4395

3.7 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

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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	0.1393	4.5917	1.3179	0.0162	0.4119	5.4400e-003	0.4173	0.1191	5.2000e-003	0.1243	0.0000	1,548.5528	1,548.5528	0.0571	0.0000	1,549.9791
Worker	0.5352	0.3351	3.8156	0.0141	1.6915	0.0103	1.7018	0.4499	9.4800e-003	0.4593	0.0000	1,271.4159	1,271.4159	0.0235	0.0000	1,272.0029
Total	0.6744	4.9268	5.1336	0.0302	2.1033	0.0157	2.1191	0.5689	0.0147	0.5836	0.0000	2,819.9687	2,819.9687	0.0805	0.0000	2,821.9820

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	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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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	0.1393	4.5917	1.3179	0.0162	0.4119	5.4400e-003	0.4173	0.1191	5.2000e-003	0.1243	0.0000	1,548.5528	1,548.5528	0.0571	0.0000	1,549.9791
Worker	0.5352	0.3351	3.8156	0.0141	1.6915	0.0103	1.7018	0.4499	9.4800e-003	0.4593	0.0000	1,271.4159	1,271.4159	0.0235	0.0000	1,272.0029
Total	0.6744	4.9268	5.1336	0.0302	2.1033	0.0157	2.1191	0.5689	0.0147	0.5836	0.0000	2,819.9687	2,819.9687	0.0805	0.0000	2,821.9820

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1346	4.5106	1.2702	0.0160	0.4103	5.3000e-003	0.4156	0.1186	5.0600e-003	0.1237	0.0000	1,532.8798	1,532.8798	0.0553	0.0000	1,534.2628
Worker	0.5017	0.3029	3.5158	0.0134	1.6850	0.0101	1.6951	0.4481	9.3000e-003	0.4574	0.0000	1,214.2945	1,214.2945	0.0212	0.0000	1,214.8235
Total	0.6363	4.8135	4.7860	0.0294	2.0953	0.0154	2.1107	0.5668	0.0144	0.5811	0.0000	2,747.1742	2,747.1742	0.0765	0.0000	2,749.0862

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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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	0.1346	4.5106	1.2702	0.0160	0.4103	5.3000e-003	0.4156	0.1186	5.0600e-003	0.1237	0.0000	1,532.8798	1,532.8798	0.0553	0.0000	1,534.2628
Worker	0.5017	0.3029	3.5158	0.0134	1.6850	0.0101	1.6951	0.4481	9.3000e-003	0.4574	0.0000	1,214.2945	1,214.2945	0.0212	0.0000	1,214.8235
Total	0.6363	4.8135	4.7860	0.0294	2.0953	0.0154	2.1107	0.5668	0.0144	0.5811	0.0000	2,747.1742	2,747.1742	0.0765	0.0000	2,749.0862

3.7 Building Construction - 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					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 Building Construction - 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	0.0000	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	0.1310	4.4479	1.2382	0.0159	0.4103	5.1700e-003	0.4155	0.1186	4.9400e-003	0.1236	0.0000	1,523.9971	1,523.9971	0.0539	0.0000	1,525.3448
Worker	0.4745	0.2767	3.2700	0.0129	1.6850	9.8100e-003	1.6948	0.4481	9.0300e-003	0.4572	0.0000	1,168.4922	1,168.4922	0.0192	0.0000	1,168.9730
Total	0.6055	4.7246	4.5082	0.0288	2.0953	0.0150	2.1103	0.5668	0.0140	0.5807	0.0000	2,692.4893	2,692.4893	0.0731	0.0000	2,694.3178

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 Building Construction - 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	0.0000	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	0.1310	4.4479	1.2382	0.0159	0.4103	5.1700e-003	0.4155	0.1186	4.9400e-003	0.1236	0.0000	1,523.9971	1,523.9971	0.0539	0.0000	1,525.3448
Worker	0.4745	0.2767	3.2700	0.0129	1.6850	9.8100e-003	1.6948	0.4481	9.0300e-003	0.4572	0.0000	1,168.4922	1,168.4922	0.0192	0.0000	1,168.9730
Total	0.6055	4.7246	4.5082	0.0288	2.0953	0.0150	2.1103	0.5668	0.0140	0.5807	0.0000	2,692.4893	2,692.4893	0.0731	0.0000	2,694.3178

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1280	4.3843	1.2126	0.0158	0.4103	5.0400e-003	0.4154	0.1186	4.8200e-003	0.1235	0.0000	1,515.6354	1,515.6354	0.0526	0.0000	1,516.9499
Worker	0.4486	0.2536	3.0539	0.0125	1.6850	9.3100e-003	1.6943	0.4481	8.5700e-003	0.4567	0.0000	1,128.0446	1,128.0446	0.0175	0.0000	1,128.4830
Total	0.5765	4.6380	4.2665	0.0283	2.0953	0.0144	2.1097	0.5668	0.0134	0.5802	0.0000	2,643.6800	2,643.6800	0.0701	0.0000	2,645.4329

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1280	4.3843	1.2126	0.0158	0.4103	5.0400e-003	0.4154	0.1186	4.8200e-003	0.1235	0.0000	1,515.6354	1,515.6354	0.0526	0.0000	1,516.9499
Worker	0.4486	0.2536	3.0539	0.0125	1.6850	9.3100e-003	1.6943	0.4481	8.5700e-003	0.4567	0.0000	1,128.0446	1,128.0446	0.0175	0.0000	1,128.4830
Total	0.5765	4.6380	4.2665	0.0283	2.0953	0.0144	2.1097	0.5668	0.0134	0.5802	0.0000	2,643.6800	2,643.6800	0.0701	0.0000	2,645.4329

3.7 Building Construction - 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	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724
Total	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724

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3.7 Building Construction - 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	0.1149	3.9662	1.0940	0.0144	0.3758	4.5100e-003	0.3803	0.1086	4.3100e-003	0.1129	0.0000	1,381.5206	1,381.5206	0.0471	0.0000	1,382.6969
Worker	0.3867	0.2136	2.6234	0.0111	1.5430	7.9100e-003	1.5509	0.4104	7.2800e-003	0.4176	0.0000	1,000.4770	1,000.4770	0.0147	0.0000	1,000.8450
Total	0.5016	4.1798	3.7174	0.0255	1.9187	0.0124	1.9311	0.5190	0.0116	0.5306	0.0000	2,381.9976	2,381.9976	0.0618	0.0000	2,383.5419

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	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721
Total	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721

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3.7 Building Construction - 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	0.1149	3.9662	1.0940	0.0144	0.3758	4.5100e-003	0.3803	0.1086	4.3100e-003	0.1129	0.0000	1,381.5206	1,381.5206	0.0471	0.0000	1,382.6969
Worker	0.3867	0.2136	2.6234	0.0111	1.5430	7.9100e-003	1.5509	0.4104	7.2800e-003	0.4176	0.0000	1,000.4770	1,000.4770	0.0147	0.0000	1,000.8450
Total	0.5016	4.1798	3.7174	0.0255	1.9187	0.0124	1.9311	0.5190	0.0116	0.5306	0.0000	2,381.9976	2,381.9976	0.0618	0.0000	2,383.5419

3.8 Architectural Coating - 2023

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					
Archit. Coating	10.9341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0659	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633
Total	11.0000	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090
Total	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090

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					
Archit. Coating	10.9341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632
Total	10.9443	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090
Total	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090

3.8 Architectural Coating - 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					
Archit. Coating	3.0514					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.0687	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

3.8 Architectural Coating - 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	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
Worker	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325
Total	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325

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					
Archit. Coating	3.0514					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.0542	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

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3.8 Architectural Coating - 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	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
Worker	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325
Total	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa 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	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.752 2	8,210.752 2	0.3601	0.0000	8,219.755 2
Unmitigated	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.752 2	8,210.752 2	0.3601	0.0000	8,219.755 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,814.40	1,972.32	1669.92	4,194,986	4,194,986
Apartments Low Rise	1,620.00	1,761.00	1491.00	3,745,523	3,745,523
Apartments Mid Rise	1,375.50	1,319.50	1211.00	3,104,112	3,104,112
City Park	56.70	682.50	502.20	447,770	447,770
City Park	5.16	62.11	45.70	40,747	40,747
Convenience Market (24 Hour)	0.00	0.00	0.00		
Office Park	2,088.42	301.38	138.28	3,896,052	3,896,052
Office Park	1,354.70	195.50	89.70	2,527,264	2,527,264
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Single Family Housing	1,893.34	1,970.06	1715.24	4,339,422	4,339,422
Unenclosed Parking Structure	202.00	202.00	202.00	153,839	153,839
Total	11,332.62	9,489.77	7,707.64	24,188,972	24,188,972

4.3 Trip Type Information

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Unenclosed Parking Structure	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Apartments Mid Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
City Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Convenience Market (24 Hour)	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Office Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Quality Restaurant	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Regional Shopping Center	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Single Family Housing	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Unenclosed Parking Structure	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843

5.0 Energy Detail

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Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,122.5774	1,122.5774	0.1819	0.0220	1,133.6930
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,122.5774	1,122.5774	0.1819	0.0220	1,133.6930
NaturalGas Mitigated	0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,861.5164	1,861.5164	0.0357	0.0341	1,872.5785
NaturalGas Unmitigated	0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,861.5164	1,861.5164	0.0357	0.0341	1,872.5785

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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					
Apartments Low Rise	4.3912e+006	0.0237	0.2023	0.0861	1.2900e-003		0.0164	0.0164		0.0164	0.0164	0.0000	234.3313	234.3313	4.4900e-003	4.3000e-003	235.7238
Apartments Low Rise	4.91815e+006	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183	0.0000	262.4510	262.4510	5.0300e-003	4.8100e-003	264.0106
Apartments Mid Rise	2.21618e+006	0.0120	0.1021	0.0435	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	118.2639	118.2639	2.2700e-003	2.1700e-003	118.9667
City Park	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
Convenience Market (24 Hour)	30000	1.6000e-004	1.4700e-003	1.2400e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6009	1.6009	3.0000e-005	3.0000e-005	1.6104
Office Park	4.6828e+006	0.0253	0.2296	0.1928	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	249.8920	249.8920	4.7900e-003	4.5800e-003	251.3770
Office Park	7.21905e+006	0.0389	0.3539	0.2973	2.1200e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.2357	385.2357	7.3800e-003	7.0600e-003	387.5250
Quality Restaurant	1.693e+006	0.0183	0.1660	0.1394	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	180.6899	180.6899	3.4600e-003	3.3100e-003	181.7636
Regional Shopping Center	54800	5.9000e-004	5.3700e-003	4.5100e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8487	5.8487	1.1000e-004	1.1000e-004	5.8834
Single Family Housing	7.93052e+006	0.0428	0.3654	0.1555	2.3300e-003		0.0296	0.0296		0.0296	0.0296	0.0000	423.2030	423.2030	8.1100e-003	7.7600e-003	425.7179
Unenclosed Parking Structure	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		0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,861.5164	1,861.5164	0.0357	0.0341	1,872.5785

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas 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					
Apartments Low Rise	4.3912e+006	0.0237	0.2023	0.0861	1.2900e-003		0.0164	0.0164		0.0164	0.0164	0.0000	234.3313	234.3313	4.4900e-003	4.3000e-003	235.7238
Apartments Low Rise	4.91815e+006	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183	0.0000	262.4510	262.4510	5.0300e-003	4.8100e-003	264.0106
Apartments Mid Rise	2.21618e+006	0.0120	0.1021	0.0435	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	118.2639	118.2639	2.2700e-003	2.1700e-003	118.9667
City Park	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
Convenience Market (24 Hour)	30000	1.6000e-004	1.4700e-003	1.2400e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6009	1.6009	3.0000e-005	3.0000e-005	1.6104
Office Park	4.6828e+006	0.0253	0.2296	0.1928	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	249.8920	249.8920	4.7900e-003	4.5800e-003	251.3770
Office Park	7.21905e+006	0.0389	0.3539	0.2973	2.1200e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.2357	385.2357	7.3800e-003	7.0600e-003	387.5250
Quality Restaurant	1.693e+006	0.0183	0.1660	0.1394	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	180.6899	180.6899	3.4600e-003	3.3100e-003	181.7636
Regional Shopping Center	54800	5.9000e-004	5.3700e-003	4.5100e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8487	5.8487	1.1000e-004	1.1000e-004	5.8834
Single Family Housing	7.93052e+006	0.0428	0.3654	0.1555	2.3300e-003		0.0296	0.0296		0.0296	0.0296	0.0000	423.2030	423.2030	8.1100e-003	7.7600e-003	425.7179
Unenclosed Parking Structure	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		0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,861.5164	1,861.5164	0.0357	0.0341	1,872.5785

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	428979	39.6363	6.4200e-003	7.8000e-004	40.0287
Apartments Low Rise	480456	44.3926	7.1900e-003	8.7000e-004	44.8322
Apartments Mid Rise	1.65332e+006	152.7617	0.0248	3.0000e-003	154.2743
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	60700	5.6085	9.1000e-004	1.1000e-004	5.6640
Office Park	3.1073e+006	287.1045	0.0465	5.6400e-003	289.9473
Office Park	4.79024e+006	442.6028	0.0717	8.6900e-003	446.9853
Quality Restaurant	294800	54.4771	8.8300e-003	1.0700e-003	55.0166
Regional Shopping Center	109300	20.1979	3.2700e-003	4.0000e-004	20.3979
Single Family Housing	774732	71.5828	0.0116	1.4100e-003	72.2916
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,122.5774	0.1819	0.0221	1,133.6930

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5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Low Rise	428979	39.6363	6.4200e-003	7.8000e-004	40.0287
Apartments Low Rise	480456	44.3926	7.1900e-003	8.7000e-004	44.8322
Apartments Mid Rise	1.65332e+006	152.7617	0.0248	3.0000e-003	154.2743
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	60700	5.6085	9.1000e-004	1.1000e-004	5.6640
Office Park	3.1073e+006	287.1045	0.0465	5.6400e-003	289.9473
Office Park	4.79024e+006	442.6028	0.0717	8.6900e-003	446.9853
Quality Restaurant	294800	54.4771	8.8300e-003	1.0700e-003	55.0166
Regional Shopping Center	109300	20.1979	3.2700e-003	4.0000e-004	20.3979
Single Family Housing	774732	71.5828	0.0116	1.4100e-003	72.2916
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,122.5774	0.1819	0.0221	1,133.6930

6.0 Area Detail

6.1 Mitigation Measures Area

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa 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	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Unmitigated	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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	1.3985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.9812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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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	1.3985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.9812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	183.6114	6.4233	0.1536	389.9614
Unmitigated	198.9529	6.4258	0.1539	405.4548

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	44.0441 / 27.7669	44.9729	1.4402	0.0345	91.2579
Apartments Mid Rise	22.8039 / 14.3764	23.2848	0.7457	0.0179	47.2489
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.226996	0.3761	0.0121	2.9000e-004	0.7653
Office Park	103.898 / 63.6793	105.4998	3.3973	0.0814	214.6777
Quality Restaurant	6.07067 / 0.38749	5.0863	0.1983	4.7300e-003	11.4549
Regional Shopping Center	1.48145 / 0.907986	1.5043	0.0484	1.1600e-003	3.0610
Single Family Housing	17.8522 / 11.2546	18.2287	0.5838	0.0140	36.9891
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		198.9529	6.4258	0.1539	405.4548

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	44.0441 / 16.6602	41.3811	1.4396	0.0344	87.6305
Apartments Mid Rise	22.8039 / 8.62583	21.4251	0.7454	0.0178	45.3708
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.136198	0.3467	0.0121	2.9000e-004	0.7356
Office Park	103.898 / 38.2076	97.2625	3.3959	0.0812	206.3589
Quality Restaurant	6.07067 / 0.232494	5.0362	0.1983	4.7300e-003	11.4042
Regional Shopping Center	1.48145 / 0.544791	1.3868	0.0484	1.1600e-003	2.9424
Single Family Housing	17.8522 / 6.75279	16.7728	0.5835	0.0140	35.5189
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		183.6114	6.4233	0.1536	389.9614

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	690.2383	40.7919	0.0000	1,710.036 2
Unmitigated	690.2383	40.7919	0.0000	1,710.036 2

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	781	158.5359	9.3692	0.0000	392.7661
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Office Park	533	108.1942	6.3941	0.0000	268.0465
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		690.2383	40.7919	0.0000	1,710.0362

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	781	158.5359	9.3692	0.0000	392.7661
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Office Park	533	108.1942	6.3941	0.0000	268.0465
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		690.2383	40.7919	0.0000	1,710.0362

9.0 Operational Offroad

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

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	354.57	1000sqft	4.27	354,570.00	0
Office Park	230.00	1000sqft	2.77	230,000.00	0
Unenclosed Parking Structure	100.00	Space	0.00	40,000.00	0
City Park	30.00	Acre	30.00	1,306,800.00	0
City Park	2.73	Acre	2.73	118,918.80	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Quality Restaurant	10.00	1000sqft	0.12	10,000.00	0
Apartments Low Rise	336.00	Dwelling Unit	11.03	336,000.00	961
Apartments Low Rise	300.00	Dwelling Unit	9.85	300,000.00	858
Apartments Mid Rise	350.00	Dwelling Unit	4.83	350,000.00	1001
Single Family Housing	274.00	Dwelling Unit	46.74	493,200.00	784
Convenience Market (24 Hour)	5.00	1000sqft	0.00	5,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0
Regional Shopping Center	10.00	1000sqft	0.12	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5	Operational Year		2024	
Utility Company	Pacific Gas & Electric Company				

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CO2 Intensity (lb/MWhr)	203.7	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004
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1.3 User Entered Comments & Non-Default Data

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

Project Characteristics - Project operational year = 2024. Updated electricity emission factors to incorporate RPS for 2024.

Land Use - CalEEMod acreage scaled to match project acreage of 80 acres for Residential, office, retail and restaurant.

Construction Phase - Construction duration is from 2/1/2021 to 11/30/2028 based on Suncal schedule. Total construction days match inputs provided by AES. Exact start and end dates are defined by CalEEMod and won't exactly match AES/SunCal inputs.

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment -

Off-road Equipment - Construction equipment list updated to match inputs provided by AES/developer.

Off-road Equipment -

Trips and VMT - CalEEMod default trip rates

Demolition - Input provided by AES/developer.

Grading - Total soil quantity exported is 355,000 cu yd. Grading area for bay trail development is 2.73 acres. Grading area for project is 90 acres.

Vehicle Emission Factors - EMFAC 2017 Emission Factors. See Air Quality Appendix Table A12 for EMFAC2017 inputs.

Road Dust - Updated silt loading factor is specific to Contra Costa county. See Air Quality Appendix Table EF2 for details.

Consumer Products - Consumer Product emission factors are updated to reflect statewide 2017 factors. See Air Quality Appendix Table A13 for further details.

Landscape Equipment - Total landscaping days set to zero

Energy Use - See Air Quality Appendix Table A15 for details on updated energy intensity values.

Solid Waste - See Air Quality Appendix Table A16 for details on updated solid waste generation rates.

Area Mitigation - No mitigation measure

Energy Mitigation - No mitigation measure

Water Mitigation - No mitigation measure

Waste Mitigation - No mitigation measure

Stationary Sources - Emergency Generators and Fire Pumps - Emergency generators evaluated outside of CalEEMod.

Table Name	Column Name	Default Value	New Value
tblApplianceMitigation	PercentImprovement	30.00	0.00

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tblApplianceMitigation	PercentImprovement	30.00	0.00
tblApplianceMitigation	PercentImprovement	30.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	50.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblApplianceMitigation	PercentImprovement	15.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	998,460.00	1,025,460.00
tblArchitecturalCoating	ConstArea_Residential_Interior	2,995,380.00	3,076,380.00
tblAreaCoating	Area_Residential_Exterior	998460	1025460
tblAreaCoating	Area_Residential_Interior	2995380	3076380
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	10
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	10
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	220.00	110.00
tblConstructionPhase	NumDays	3,100.00	1,550.00
tblConstructionPhase	NumDays	200.00	78.00
tblConstructionPhase	NumDays	310.00	261.00
tblConstructionPhase	NumDays	310.00	262.00

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tblConstructionPhase	NumDays	220.00	125.00
tblConstructionPhase	NumDays	120.00	89.00
tblConsumerProducts	ROG_EF	2.14E-05	1.55E-05
tblEnergyUse	LightingElect	810.36	0.00
tblEnergyUse	LightingElect	741.44	667.30
tblEnergyUse	LightingElect	4.88	5.88
tblEnergyUse	LightingElect	3.47	3.77
tblEnergyUse	LightingElect	5.34	5.61
tblEnergyUse	LightingElect	4.88	5.12
tblEnergyUse	LightingElect	1,608.84	0.00
tblEnergyUse	LightingElect	1.75	1.14
tblEnergyUse	NT24E	3,172.76	0.00
tblEnergyUse	NT24E	6,155.97	0.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	1.17	1.00
tblEnergyUse	NT24NG	128.02	128.00
tblEnergyUse	NT24NG	0.70	1.00
tblEnergyUse	NT24NG	2,615.00	1,961.25
tblEnergyUse	T24E	233.06	1,429.93
tblEnergyUse	T24E	426.45	1,002.38
tblEnergyUse	T24E	2.24	2.90
tblEnergyUse	T24E	4.27	4.93
tblEnergyUse	T24E	2.67	2.90
tblEnergyUse	T24E	2.24	2.45
tblEnergyUse	T24E	217.68	2,827.49

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tblEnergyUse	T24NG	17,734.50	12,676.09
tblEnergyUse	T24NG	6,115.43	4,370.70
tblEnergyUse	T24NG	3.90	5.00
tblEnergyUse	T24NG	17.44	19.36
tblEnergyUse	T24NG	39.90	41.30
tblEnergyUse	T24NG	3.90	4.48
tblEnergyUse	T24NG	39,708.76	26,982.27
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	95.40	600.00
tblFireplaces	NumberGas	52.50	0.00
tblFireplaces	NumberGas	68.50	0.00
tblFireplaces	NumberNoFireplace	25.44	0.00
tblFireplaces	NumberNoFireplace	14.00	0.00
tblFireplaces	NumberNoFireplace	21.92	0.00
tblFireplaces	NumberWood	108.12	0.00
tblFireplaces	NumberWood	59.50	0.00
tblFireplaces	NumberWood	117.82	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02

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tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02
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tblFleetMix	LDT2	0.18	0.18
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tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LDT2	0.18	0.18

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tblFleetMix	LDT2	0.18	0.18
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tblFleetMix	LHD1	0.01	0.02
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tblFleetMix	MCY	5.3010e-003	5.2670e-003

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tblFleetMix	MCY	5.3010e-003	5.2670e-003
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tblFleetMix	MCY	5.3010e-003	5.2670e-003
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tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	7.7100e-004	8.4300e-004
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tblFleetMix	MH	7.7100e-004	8.4300e-004
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tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01

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tblFleetMix	MHD	0.01	0.01
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tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
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tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004

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tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblGrading	AcresOfGrading	1,696.50	90.00
tblGrading	AcresOfGrading	622.25	2.73
tblGrading	MaterialExported	0.00	344,550.00
tblGrading	MaterialExported	0.00	10,450.00
tblLandUse	LotAcreage	5.28	2.77
tblLandUse	LotAcreage	8.14	4.27
tblLandUse	LotAcreage	0.90	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	18.75	9.85
tblLandUse	LotAcreage	21.00	11.03
tblLandUse	LotAcreage	9.21	4.83
tblLandUse	LotAcreage	88.96	46.74
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.23	0.12
tblLandUse	LotAcreage	0.23	0.12
tblOffRoadEquipment	HorsePower	402.00	367.00
tblOffRoadEquipment	LoadFactor	0.38	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	641.35	203.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblRoadDust	RoadSiltLoading	0.1	0.047
tblSolidWaste	SolidWasteGenerationRate	292.56	1,420.00
tblSolidWaste	SolidWasteGenerationRate	161.00	781.00
tblSolidWaste	SolidWasteGenerationRate	543.65	533.00
tblSolidWaste	SolidWasteGenerationRate	21.00	18.25
tblSolidWaste	SolidWasteGenerationRate	329.28	612.00
tblTripsAndVMT	HaulingTripNumber	34,067.00	43,069.00
tblTripsAndVMT	HaulingTripNumber	1,033.00	1,306.00
tblVehicleEF	HHD	0.41	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.58	6.28
tblVehicleEF	HHD	0.84	0.40
tblVehicleEF	HHD	2.87	5.3000e-003
tblVehicleEF	HHD	4,335.05	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.83	5.34
tblVehicleEF	HHD	1.90	2.66
tblVehicleEF	HHD	19.75	2.36

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tblVehicleEF	HHD	7.9210e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	7.5790e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.41	0.42
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3500e-004	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.48	0.49
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.08	0.00

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tblVehicleEF	HHD	0.39	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.15	6.28
tblVehicleEF	HHD	0.85	0.40
tblVehicleEF	HHD	2.61	5.3000e-003
tblVehicleEF	HHD	4,592.60	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	14.28	5.34
tblVehicleEF	HHD	1.83	2.66
tblVehicleEF	HHD	19.74	2.36
tblVehicleEF	HHD	6.6780e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	6.3890e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.39	0.42
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.09	0.03

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tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3100e-004	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.45	0.49
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.45	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.17	6.28
tblVehicleEF	HHD	0.83	0.40
tblVehicleEF	HHD	3.11	5.3000e-003
tblVehicleEF	HHD	3,979.39	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.22	5.34
tblVehicleEF	HHD	1.93	2.66
tblVehicleEF	HHD	19.77	2.36
tblVehicleEF	HHD	9.6380e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

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tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	9.2210e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.51	0.49
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	LDA	3.2820e-003	1.8000e-003
tblVehicleEF	LDA	4.5120e-003	0.05
tblVehicleEF	LDA	0.48	0.52

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tblVehicleEF	LDA	1.04	2.15
tblVehicleEF	LDA	229.87	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.2620e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.3010e-003	2.4000e-003
tblVehicleEF	LDA	5.4600e-004	5.0000e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	3.7280e-003	1.8000e-003
tblVehicleEF	LDA	3.6390e-003	0.05

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tblVehicleEF	LDA	0.58	0.52
tblVehicleEF	LDA	0.80	2.15
tblVehicleEF	LDA	251.31	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	9.3650e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.21
tblVehicleEF	LDA	2.5170e-003	2.4000e-003
tblVehicleEF	LDA	5.4200e-004	5.0000e-004
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.23
tblVehicleEF	LDA	3.1830e-003	1.8000e-003

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tblVehicleEF	LDA	5.1540e-003	0.05
tblVehicleEF	LDA	0.47	0.52
tblVehicleEF	LDA	1.24	2.15
tblVehicleEF	LDA	226.93	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	8.0170e-003	6.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.2720e-003	2.4000e-003
tblVehicleEF	LDA	5.4900e-004	5.0000e-004
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.23

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tblVehicleEF	LDT1	6.8390e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.88	0.87
tblVehicleEF	LDT1	2.31	2.34
tblVehicleEF	LDT1	287.67	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.13	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.15	0.32
tblVehicleEF	LDT1	2.8860e-003	2.8000e-003
tblVehicleEF	LDT1	7.0800e-004	6.0000e-004
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08

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tblVehicleEF	LDT1	0.16	0.35
tblVehicleEF	LDT1	7.6930e-003	3.8000e-003
tblVehicleEF	LDT1	8.8990e-003	0.07
tblVehicleEF	LDT1	1.05	0.87
tblVehicleEF	LDT1	1.76	2.34
tblVehicleEF	LDT1	313.61	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.11	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.12	0.32
tblVehicleEF	LDT1	3.1480e-003	2.8000e-003
tblVehicleEF	LDT1	6.9900e-004	6.0000e-004
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.03	0.02

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tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.13	0.35
tblVehicleEF	LDT1	6.6770e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.87	0.87
tblVehicleEF	LDT1	2.76	2.34
tblVehicleEF	LDT1	284.11	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.10	0.07
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8500e-003	2.8000e-003
tblVehicleEF	LDT1	7.1600e-004	6.0000e-004
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08

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tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT2	4.4150e-003	2.9000e-003
tblVehicleEF	LDT2	5.8360e-003	0.06
tblVehicleEF	LDT2	0.62	0.70
tblVehicleEF	LDT2	1.34	2.74
tblVehicleEF	LDT2	323.78	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.2420e-003	3.0000e-003
tblVehicleEF	LDT2	7.6900e-004	7.0000e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12

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tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.0080e-003	2.9000e-003
tblVehicleEF	LDT2	4.7080e-003	0.06
tblVehicleEF	LDT2	0.75	0.70
tblVehicleEF	LDT2	1.03	2.74
tblVehicleEF	LDT2	353.38	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.08	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	3.5390e-003	3.0000e-003
tblVehicleEF	LDT2	7.6400e-004	7.0000e-004
tblVehicleEF	LDT2	0.09	0.06

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tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.32
tblVehicleEF	LDT2	4.2820e-003	2.9000e-003
tblVehicleEF	LDT2	6.6640e-003	0.06
tblVehicleEF	LDT2	0.60	0.70
tblVehicleEF	LDT2	1.58	2.74
tblVehicleEF	LDT2	319.73	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.2010e-003	3.0000e-003
tblVehicleEF	LDT2	7.7400e-004	7.0000e-004

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tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.99	0.77
tblVehicleEF	LHD1	2.29	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.39	0.94
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01

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tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.01	0.77
tblVehicleEF	LHD1	2.10	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85

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tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.33	0.94
tblVehicleEF	LHD1	0.87	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.3800e-004	1.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003

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tblVehicleEF	LHD1	0.16	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.24	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.77
tblVehicleEF	LHD1	2.47	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.42	0.94
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07

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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4500e-004	1.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.0300e-003	6.9000e-003
tblVehicleEF	LHD2	5.6740e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	1.02	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.77	0.98
tblVehicleEF	LHD2	0.40	0.17

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tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04

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tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.1180e-003	6.9000e-003
tblVehicleEF	LHD2	5.3450e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	0.94	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.74	0.98
tblVehicleEF	LHD2	0.38	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12

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tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4200e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	6.9590e-003	6.9000e-003
tblVehicleEF	LHD2	5.9550e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.64
tblVehicleEF	LHD2	1.09	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.78	0.98
tblVehicleEF	LHD2	0.42	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01

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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.16	0.26
tblVehicleEF	MCY	19.70	20.00

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tblVehicleEF	MCY	10.22	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.27	2.29
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	2.1230e-003	2.1000e-003
tblVehicleEF	MCY	6.8900e-004	6.0000e-004
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.81	2.82
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.43	2.15
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.13	0.26

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tblVehicleEF	MCY	18.98	20.00
tblVehicleEF	MCY	8.86	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.02	1.16
tblVehicleEF	MCY	0.29	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.18	2.29
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.83	1.98
tblVehicleEF	MCY	2.1090e-003	2.1000e-003
tblVehicleEF	MCY	6.5400e-004	6.0000e-004
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.70	2.82
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.99	2.15
tblVehicleEF	MCY	0.47	0.34

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tblVehicleEF	MCY	0.19	0.26
tblVehicleEF	MCY	21.47	20.00
tblVehicleEF	MCY	11.78	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.25	1.16
tblVehicleEF	MCY	0.35	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.37	2.29
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.62	1.98
tblVehicleEF	MCY	2.1550e-003	2.1000e-003
tblVehicleEF	MCY	7.2600e-004	6.0000e-004
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.94	2.82
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.85	2.15

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tblVehicleEF	MDV	8.6020e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.97	0.82
tblVehicleEF	MDV	2.71	3.10
tblVehicleEF	MDV	443.89	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.24	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4430e-003	3.8000e-003
tblVehicleEF	MDV	1.0620e-003	8.0000e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06

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tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	9.7400e-003	3.8000e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.18	0.82
tblVehicleEF	MDV	2.08	3.10
tblVehicleEF	MDV	483.31	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.21	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.38
tblVehicleEF	MDV	4.8400e-003	3.8000e-003
tblVehicleEF	MDV	1.0500e-003	8.0000e-004
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.04	0.02

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tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.42
tblVehicleEF	MDV	8.3570e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.96	0.82
tblVehicleEF	MDV	3.22	3.10
tblVehicleEF	MDV	438.49	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.23	0.38
tblVehicleEF	MDV	4.3890e-003	3.8000e-003
tblVehicleEF	MDV	1.0710e-003	8.0000e-004
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08

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tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.25	0.42
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.46	0.85
tblVehicleEF	MH	4.96	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.34	1.52
tblVehicleEF	MH	0.78	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.6600e-004	2.0000e-004

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tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.32	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.52	0.85
tblVehicleEF	MH	4.45	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.26	1.52
tblVehicleEF	MH	0.72	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01

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tblVehicleEF	MH	0.27	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5800e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.41	0.85
tblVehicleEF	MH	5.39	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.38	1.52
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05

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tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7400e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.4400e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.37	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.47	1.19
tblVehicleEF	MHD	134.03	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.38	0.52
tblVehicleEF	MHD	1.11	1.47
tblVehicleEF	MHD	10.23	1.66
tblVehicleEF	MHD	1.4100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003

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tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.3500e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	1.2910e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0200e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.01	4.0000e-003
tblVehicleEF	MHD	4.5430e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.43
tblVehicleEF	MHD	0.36	0.27

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tblVehicleEF	MHD	4.98	1.19
tblVehicleEF	MHD	142.13	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.40	0.52
tblVehicleEF	MHD	1.07	1.47
tblVehicleEF	MHD	10.17	1.66
tblVehicleEF	MHD	1.1900e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.1400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	1.3670e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9400e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02

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tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.3600e-003	2.1000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.94	1.19
tblVehicleEF	MHD	123.22	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.37	0.52
tblVehicleEF	MHD	1.13	1.47
tblVehicleEF	MHD	10.28	1.66
tblVehicleEF	MHD	1.7100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.6400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02

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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	1.1890e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.3020e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.53	0.98
tblVehicleEF	OBUS	5.50	2.88
tblVehicleEF	OBUS	71.68	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.14	0.23
tblVehicleEF	OBUS	0.75	1.13
tblVehicleEF	OBUS	2.17	0.68
tblVehicleEF	OBUS	1.3000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13

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tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.34	0.14
tblVehicleEF	OBUS	6.9600e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.37	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.5680e-003	9.0000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.24	0.50

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tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	4.94	2.88
tblVehicleEF	OBUS	74.94	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.15	0.23
tblVehicleEF	OBUS	0.71	1.13
tblVehicleEF	OBUS	2.10	0.68
tblVehicleEF	OBUS	1.1000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.0000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.32	0.14
tblVehicleEF	OBUS	7.2700e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7700e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003

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tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.35	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.0920e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.52	0.98
tblVehicleEF	OBUS	5.95	2.88
tblVehicleEF	OBUS	67.19	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.13	0.23
tblVehicleEF	OBUS	0.77	1.13
tblVehicleEF	OBUS	2.23	0.68
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003

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tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.36	0.14
tblVehicleEF	OBUS	6.5300e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9500e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1030e-003	2.6000e-003
tblVehicleEF	SBUS	0.06	1.3000e-003
tblVehicleEF	SBUS	2.09	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.33	0.19
tblVehicleEF	SBUS	1,440.18	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.22	2.23
tblVehicleEF	SBUS	4.78	2.75

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tblVehicleEF	SBUS	19.18	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2700e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	8.0000e-003
tblVehicleEF	SBUS	0.87	0.02

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tblVehicleEF	SBUS	6.1440e-003	2.6000e-003
tblVehicleEF	SBUS	0.05	1.3000e-003
tblVehicleEF	SBUS	1.93	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	0.91	0.19
tblVehicleEF	SBUS	1,522.68	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.64	2.23
tblVehicleEF	SBUS	4.59	2.75
tblVehicleEF	SBUS	19.17	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	9.5970e-003	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.24	0.09
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.05	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003

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tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2100e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.33	0.12
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.06	8.0000e-003
tblVehicleEF	SBUS	0.88	0.02
tblVehicleEF	SBUS	6.0730e-003	2.6000e-003
tblVehicleEF	SBUS	0.07	1.3000e-003
tblVehicleEF	SBUS	2.33	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.66	0.19
tblVehicleEF	SBUS	1,326.25	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	12.63	2.23
tblVehicleEF	SBUS	4.86	2.75
tblVehicleEF	SBUS	19.19	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003

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tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.3300e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	8.0000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.07	1.5000e-003
tblVehicleEF	UBUS	4.04	8.13
tblVehicleEF	UBUS	11.74	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.66	0.64
tblVehicleEF	UBUS	12.20	0.03

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tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.98	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7290e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.65	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	1.08	5.8000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.06	1.5000e-003
tblVehicleEF	UBUS	4.11	8.13
tblVehicleEF	UBUS	9.17	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20

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tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.41	0.64
tblVehicleEF	UBUS	12.07	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.39	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.85	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.6840e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.66	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.93	5.8000e-003
tblVehicleEF	UBUS	0.23	1.10
tblVehicleEF	UBUS	0.08	1.5000e-003

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tblVehicleEF	UBUS	4.00	8.13
tblVehicleEF	UBUS	14.08	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.77	0.64
tblVehicleEF	UBUS	12.31	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.10	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7700e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.64	1.12
tblVehicleEF	UBUS	0.03	1.0000e-004

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tblVehicleEF	UBUS	1.20	5.8000e-003
tblVehicleTrips	CC_TTP	0.00	80.10
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	0.90
tblVehicleTrips	DV_TP	18.00	40.00
tblVehicleTrips	DV_TP	35.00	40.00
tblVehicleTrips	DV_TP	0.00	15.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PB_TP	0.00	61.00
tblVehicleTrips	PR_TP	38.00	60.00
tblVehicleTrips	PR_TP	54.00	60.00
tblVehicleTrips	PR_TP	0.00	24.00
tblVehicleTrips	ST_TR	7.16	5.87
tblVehicleTrips	ST_TR	6.39	3.77
tblVehicleTrips	ST_TR	863.10	0.00
tblVehicleTrips	ST_TR	1.64	0.85
tblVehicleTrips	ST_TR	94.36	24.19
tblVehicleTrips	ST_TR	49.97	26.98
tblVehicleTrips	ST_TR	9.91	7.19
tblVehicleTrips	ST_TR	0.00	2.02
tblVehicleTrips	SU_TR	6.07	4.97
tblVehicleTrips	SU_TR	5.86	3.46
tblVehicleTrips	SU_TR	758.45	0.00
tblVehicleTrips	SU_TR	0.76	0.39
tblVehicleTrips	SU_TR	72.16	18.50
tblVehicleTrips	SU_TR	25.24	13.63

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tblVehicleTrips	SU_TR	8.62	6.26
tblVehicleTrips	SU_TR	0.00	2.02
tblVehicleTrips	WD_TR	6.59	5.40
tblVehicleTrips	WD_TR	6.65	3.93
tblVehicleTrips	WD_TR	737.99	0.00
tblVehicleTrips	WD_TR	11.42	5.89
tblVehicleTrips	WD_TR	89.95	23.06
tblVehicleTrips	WD_TR	42.70	23.06
tblVehicleTrips	WD_TR	9.52	6.91
tblVehicleTrips	WD_TR	0.00	2.02
tblWater	IndoorWaterUseRate	41,437,960.30	44,044,121.32
tblWater	OutdoorWaterUseRate	26,123,931.49	27,766,946.05
tblWater	OutdoorWaterUseRate	38,997,184.57	0.00
tblWoodstoves	NumberCatalytic	12.72	0.00
tblWoodstoves	NumberCatalytic	7.00	0.00
tblWoodstoves	NumberCatalytic	10.96	0.00
tblWoodstoves	NumberNoncatalytic	12.72	0.00
tblWoodstoves	NumberNoncatalytic	7.00	0.00
tblWoodstoves	NumberNoncatalytic	10.96	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveDayYear	21.06	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

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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					
2021	1.2161	16.2072	8.5517	0.0283	1.8482	0.5252	2.3734	0.8787	0.4842	1.3629	0.0000	2,597.7828	2,597.7828	0.4832	0.0000	2,609.8618
2022	0.7740	8.8620	6.2797	0.0184	1.1261	0.3088	1.4349	0.4836	0.2844	0.7680	0.0000	1,658.7579	1,658.7579	0.3860	0.0000	1,668.4089
2023	12.0286	8.0757	9.0559	0.0378	2.3097	0.1613	2.4710	0.6509	0.1525	0.8034	0.0000	3,476.7066	3,476.7066	0.2045	0.0000	3,481.8195
2024	3.9457	6.8111	7.4952	0.0343	2.1344	0.1021	2.2365	0.5772	0.0963	0.6735	0.0000	3,171.5239	3,171.5239	0.1542	0.0000	3,175.3781
2025	0.8147	6.4407	6.8851	0.0329	2.0953	0.0843	2.1796	0.5668	0.0791	0.6459	0.0000	3,049.8291	3,049.8291	0.1476	0.0000	3,053.5197
2026	0.7839	6.3519	6.6073	0.0323	2.0953	0.0838	2.1792	0.5668	0.0787	0.6455	0.0000	2,995.1442	2,995.1442	0.1443	0.0000	2,998.7513
2027	0.7550	6.2653	6.3655	0.0318	2.0953	0.0832	2.1785	0.5668	0.0782	0.6449	0.0000	2,946.3349	2,946.3349	0.1413	0.0000	2,949.8664
2028	0.6650	5.6699	5.6395	0.0287	1.9187	0.0755	1.9942	0.5190	0.0709	0.5899	0.0000	2,659.1414	2,659.1414	0.1269	0.0000	2,662.3144
Maximum	12.0286	16.2072	9.0559	0.0378	2.3097	0.5252	2.4710	0.8787	0.4842	1.3629	0.0000	3,476.7066	3,476.7066	0.4832	0.0000	3,481.8195

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2.1 Overall Construction

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					
2021	0.4376	6.6648	8.7730	0.0283	1.0400	0.0969	1.1369	0.4514	0.0913	0.5428	0.0000	2,597.781 2	2,597.781 2	0.4832	0.0000	2,609.860 2
2022	0.3618	3.8954	7.0112	0.0184	0.7210	0.1010	0.8220	0.2729	0.0943	0.3672	0.0000	1,658.756 5	1,658.756 5	0.3860	0.0000	1,668.407 5
2023	11.7640	5.5514	9.3498	0.0378	2.2555	0.0305	2.2860	0.6215	0.0290	0.6504	0.0000	3,476.706 0	3,476.706 0	0.2045	0.0000	3,481.818 9
2024	3.7814	5.2381	7.6667	0.0343	2.1344	0.0217	2.1560	0.5772	0.0206	0.5978	0.0000	3,171.523 6	3,171.523 6	0.1542	0.0000	3,175.377 7
2025	0.6791	5.1051	7.0646	0.0329	2.0953	0.0207	2.1160	0.5668	0.0197	0.5864	0.0000	3,049.828 8	3,049.828 8	0.1476	0.0000	3,053.519 4
2026	0.6483	5.0163	6.7868	0.0323	2.0953	0.0203	2.1156	0.5668	0.0193	0.5861	0.0000	2,995.143 8	2,995.143 8	0.1443	0.0000	2,998.751 0
2027	0.6193	4.9296	6.5450	0.0318	2.0953	0.0197	2.1150	0.5668	0.0187	0.5855	0.0000	2,946.334 5	2,946.334 5	0.1413	0.0000	2,949.866 0
2028	0.5408	4.4468	5.8039	0.0287	1.9187	0.0173	1.9360	0.5190	0.0165	0.5355	0.0000	2,659.141 1	2,659.141 1	0.1269	0.0000	2,662.314 0
Maximum	11.7640	6.6648	9.3498	0.0378	2.2555	0.1010	2.2860	0.6215	0.0943	0.6504	0.0000	3,476.706 0	3,476.706 0	0.4832	0.0000	3,481.818 9

	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	10.25	36.85	-3.73	0.00	8.11	76.97	13.87	13.88	76.64	27.43	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	2-1-2021	4-30-2021	3.6175	0.8996
2	5-1-2021	7-31-2021	5.8880	2.3394

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3	8-1-2021	10-31-2021	4.6736	2.2709
4	11-1-2021	1-31-2022	5.0925	2.4874
5	2-1-2022	4-30-2022	4.8333	2.2298
6	5-1-2022	7-31-2022	1.6509	0.6295
7	8-1-2022	10-31-2022	1.4097	0.3883
8	11-1-2022	1-31-2023	2.2663	1.0905
9	2-1-2023	4-30-2023	2.3086	1.5996
10	5-1-2023	7-31-2023	1.9569	1.5168
11	8-1-2023	10-31-2023	7.8004	7.1274
12	11-1-2023	1-31-2024	10.7532	9.9818
13	2-1-2024	4-30-2024	1.9604	1.5598
14	5-1-2024	7-31-2024	1.8879	1.4820
15	8-1-2024	10-31-2024	1.8973	1.4914
16	11-1-2024	1-31-2025	1.8924	1.4984
17	2-1-2025	4-30-2025	1.7775	1.4191
18	5-1-2025	7-31-2025	1.8201	1.4497
19	8-1-2025	10-31-2025	1.8289	1.4585
20	11-1-2025	1-31-2026	1.8356	1.4652
21	2-1-2026	4-30-2026	1.7477	1.3893
22	5-1-2026	7-31-2026	1.7903	1.4198
23	8-1-2026	10-31-2026	1.7986	1.4281
24	11-1-2026	1-31-2027	1.8047	1.4342
25	2-1-2027	4-30-2027	1.7189	1.3605
26	5-1-2027	7-31-2027	1.7615	1.3910
27	8-1-2027	10-31-2027	1.7693	1.3988
28	11-1-2027	1-31-2028	1.7756	1.4051
29	2-1-2028	4-30-2028	1.7124	1.3500

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30	5-1-2028	7-31-2028	1.7359	1.3655
31	8-1-2028	9-30-2028	1.1510	0.9054
		Highest	10.7532	9.9818

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	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	2,984.0938	2,984.0938	0.2175	0.0562	3,006.2715
Mobile	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.7522	8,210.7522	0.3601	0.0000	8,219.7552
Waste						0.0000	0.0000		0.0000	0.0000	690.2383	0.0000	690.2383	40.7919	0.0000	1,710.0362
Water						0.0000	0.0000		0.0000	0.0000	62.3469	136.6060	198.9529	6.4258	0.1539	405.4548
Total	10.4144	7.7386	30.7663	0.1000	5.1752	0.2105	5.3857	1.4699	0.2058	1.6757	752.5852	11,481.2592	12,233.8444	47.7982	0.2128	13,492.2150

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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	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Energy	0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	2,984.0938	2,984.0938	0.2175	0.0562	3,006.2715
Mobile	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.7522	8,210.7522	0.3601	0.0000	8,219.7552
Waste						0.0000	0.0000		0.0000	0.0000	690.2383	0.0000	690.2383	40.7919	0.0000	1,710.0362
Water						0.0000	0.0000		0.0000	0.0000	62.3469	136.6060	198.9529	6.4258	0.1539	405.4548
Total	10.4144	7.7386	30.7663	0.1000	5.1752	0.2105	5.3857	1.4699	0.2058	1.6757	752.5852	11,481.2592	12,233.8444	47.7982	0.2128	13,492.2150

	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2021	5/19/2021	5	78	
2	Site Preparation	Site Preparation	3/1/2021	7/1/2021	5	89	
3	Grading	Grading	4/1/2021	3/31/2022	5	261	
4	Paving	Paving	1/1/2022	6/24/2022	5	125	
5	Bay Trail Grading	Grading	3/1/2022	3/1/2023	5	262	
6	Building Construction	Building Construction	12/23/2022	11/30/2028	5	1550	
7	Architectural Coating	Architectural Coating	9/1/2023	2/1/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 3,076,380; Residential Outdoor: 1,025,460; Non-Residential Indoor: 944,355; Non-Residential Outdoor: 314,785; Striped Parking Area: 2,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	6	8.00	367	0.48

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Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Bay Trail Grading	Excavators	1	6.00	158	0.38
Bay Trail Grading	Graders	1	6.00	187	0.41
Bay Trail Grading	Off-Highway Trucks	1	8.00	367	0.48
Bay Trail Grading	Paving Equipment	1	8.00	132	0.36
Bay Trail Grading	Plate Compactors	1	8.00	8	0.43
Bay Trail Grading	Rubber Tired Dozers	1	6.00	247	0.40
Bay Trail Grading	Scrapers	2	8.00	367	0.48
Bay Trail Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	8	6.00	78	0.48

Trips and VMT

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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
Demolition	6	15.00	0.00	227.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	30.00	0.00	43,069.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Bay Trail Grading	9	23.00	0.00	1,306.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,628.00	478.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	8	326.00	0.00	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

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

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					0.0246	0.0000	0.0246	3.7300e-003	0.0000	3.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1234	1.2262	0.8410	1.5100e-003		0.0605	0.0605		0.0562	0.0562	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361
Total	0.1234	1.2262	0.8410	1.5100e-003	0.0246	0.0605	0.0851	3.7300e-003	0.0562	0.0599	0.0000	132.6031	132.6031	0.0373	0.0000	133.5361

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

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					0.0111	0.0000	0.0111	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.0781	0.9079	1.5100e-003		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360
Total	0.0180	0.0781	0.9079	1.5100e-003	0.0111	2.4000e-003	0.0135	1.6800e-003	2.4000e-003	4.0800e-003	0.0000	132.6029	132.6029	0.0373	0.0000	133.5360

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3.2 Demolition - 2021

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	8.8000e-004	0.0304	6.0200e-003	9.0000e-005	1.9200e-003	1.0000e-004	2.0200e-003	5.3000e-004	9.0000e-005	6.2000e-004	0.0000	8.5003	8.5003	3.7000e-004	0.0000	8.5096
Vendor	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
Worker	1.8100e-003	1.2700e-003	0.0134	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.9261	3.9261	9.0000e-005	0.0000	3.9283
Total	2.6900e-003	0.0317	0.0194	1.3000e-004	6.5600e-003	1.3000e-004	6.6900e-003	1.7600e-003	1.2000e-004	1.8800e-003	0.0000	12.4264	12.4264	4.6000e-004	0.0000	12.4379

3.3 Site Preparation - 2021

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					0.8040	0.0000	0.8040	0.4419	0.0000	0.4419	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1730	1.8021	0.9414	1.6900e-003		0.0910	0.0910		0.0837	0.0837	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920
Total	0.1730	1.8021	0.9414	1.6900e-003	0.8040	0.0910	0.8949	0.4419	0.0837	0.5256	0.0000	148.7889	148.7889	0.0481	0.0000	149.9920

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

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					0.3618	0.0000	0.3618	0.1989	0.0000	0.1989	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.0898	0.9287	1.6900e-003		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918
Total	0.0207	0.0898	0.9287	1.6900e-003	0.3618	2.7600e-003	0.3645	0.1989	2.7600e-003	0.2016	0.0000	148.7888	148.7888	0.0481	0.0000	149.9918

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3.3 Site Preparation - 2021

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	0.0000	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
Worker	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788
Total	2.4800e-003	1.7300e-003	0.0183	6.0000e-005	6.3500e-003	4.0000e-005	6.3900e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	5.3757	5.3757	1.2000e-004	0.0000	5.3788

3.4 Grading - 2021

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					0.6409	0.0000	0.6409	0.3312	0.0000	0.3312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7790	8.7873	5.8014	0.0121		0.3596	0.3596		0.3308	0.3308	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347
Total	0.7790	8.7873	5.8014	0.0121	0.6409	0.3596	1.0005	0.3312	0.3308	0.6621	0.0000	1,061.4523	1,061.4523	0.3433	0.0000	1,070.0347

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

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					0.2884	0.0000	0.2884	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2582	2.1053	5.9685	0.0121		0.0776	0.0776		0.0727	0.0727	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334
Total	0.2582	2.1053	5.9685	0.0121	0.2884	0.0776	0.3660	0.1490	0.0727	0.2218	0.0000	1,061.4511	1,061.4511	0.3433	0.0000	1,070.0334

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3.4 Grading - 2021

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	0.1263	4.3518	0.8625	0.0126	0.3424	0.0138	0.3562	0.0922	0.0132	0.1053	0.0000	1,217.3046	1,217.3046	0.0534	0.0000	1,218.6393
Vendor	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
Worker	9.1500e-003	6.4000e-003	0.0677	2.2000e-004	0.0234	1.5000e-004	0.0236	6.2300e-003	1.4000e-004	6.3700e-003	0.0000	19.8317	19.8317	4.5000e-004	0.0000	19.8430
Total	0.1354	4.3582	0.9302	0.0128	0.3659	0.0139	0.3798	0.0984	0.0133	0.1117	0.0000	1,237.1363	1,237.1363	0.0538	0.0000	1,238.4823

3.4 Grading - 2022

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					0.2404	0.0000	0.2404	0.1111	0.0000	0.1111	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2209	2.3878	1.7454	3.9300e-003		0.0970	0.0970		0.0892	0.0892	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322
Total	0.2209	2.3878	1.7454	3.9300e-003	0.2404	0.0970	0.3374	0.1111	0.0892	0.2003	0.0000	345.2407	345.2407	0.1117	0.0000	348.0322

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

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					0.1082	0.0000	0.1082	0.0500	0.0000	0.0500	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0786	0.5995	1.9088	3.9300e-003		0.0220	0.0220		0.0207	0.0207	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318
Total	0.0786	0.5995	1.9088	3.9300e-003	0.1082	0.0220	0.1302	0.0500	0.0207	0.0706	0.0000	345.2403	345.2403	0.1117	0.0000	348.0318

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3.4 Grading - 2022

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	0.0387	1.2964	0.2750	4.0400e-003	0.2958	3.8100e-003	0.2996	0.0753	3.6500e-003	0.0789	0.0000	390.1857	390.1857	0.0168	0.0000	390.6059
Vendor	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
Worker	2.7600e-003	1.8600e-003	0.0202	7.0000e-005	7.6100e-003	5.0000e-005	7.6600e-003	2.0200e-003	4.0000e-005	2.0700e-003	0.0000	6.2036	6.2036	1.3000e-004	0.0000	6.2069
Total	0.0414	1.2982	0.2952	4.1100e-003	0.3034	3.8600e-003	0.3073	0.0773	3.6900e-003	0.0810	0.0000	396.3892	396.3892	0.0169	0.0000	396.8127

3.5 Paving - 2022

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1722	125.1722	0.0405	0.0000	126.1843

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

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	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0689	0.6953	0.9113	1.4300e-003		0.0355	0.0355		0.0327	0.0327	0.0000	125.1721	125.1721	0.0405	0.0000	126.1842

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3.5 Paving - 2022

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	0.0000	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
Worker	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614
Total	2.7000e-003	1.8200e-003	0.0197	7.0000e-005	7.4400e-003	5.0000e-005	7.4800e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.0582	6.0582	1.3000e-004	0.0000	6.0614

3.6 Bay Trail Grading - 2022

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					0.4960	0.0000	0.4960	0.2720	0.0000	0.2720	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4053	4.1437	3.0396	7.4600e-003		0.1689	0.1689		0.1555	0.1555	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293
Total	0.4053	4.1437	3.0396	7.4600e-003	0.4960	0.1689	0.6650	0.2720	0.1555	0.4275	0.0000	654.0597	654.0597	0.2108	0.0000	659.3293

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

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					0.2232	0.0000	0.2232	0.1224	0.0000	0.1224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1395	1.0055	3.6043	7.4600e-003		0.0384	0.0384		0.0361	0.0361	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286
Total	0.1395	1.0055	3.6043	7.4600e-003	0.2232	0.0384	0.2616	0.1224	0.0361	0.1585	0.0000	654.0590	654.0590	0.2108	0.0000	659.3286

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3.6 Bay Trail Grading - 2022

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	3.9900e-003	0.1340	0.0284	4.2000e-004	0.0106	3.9000e-004	0.0110	2.8800e-003	3.8000e-004	3.2500e-003	0.0000	40.3323	40.3323	1.7400e-003	0.0000	40.3757
Vendor	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
Worker	7.2500e-003	4.8900e-003	0.0530	1.8000e-004	0.0200	1.3000e-004	0.0201	5.3100e-003	1.2000e-004	5.4300e-003	0.0000	16.2747	16.2747	3.4000e-004	0.0000	16.2833
Total	0.0112	0.1389	0.0814	6.0000e-004	0.0306	5.2000e-004	0.0311	8.1900e-003	5.0000e-004	8.6800e-003	0.0000	56.6070	56.6070	2.0800e-003	0.0000	56.6590

3.6 Bay Trail Grading - 2023

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					0.0986	0.0000	0.0986	0.0535	0.0000	0.0535	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.7283	0.5768	1.4700e-003		0.0293	0.0293		0.0270	0.0270	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717
Total	0.0740	0.7283	0.5768	1.4700e-003	0.0986	0.0293	0.1279	0.0535	0.0270	0.0805	0.0000	128.4369	128.4369	0.0414	0.0000	129.4717

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

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					0.0444	0.0000	0.0444	0.0241	0.0000	0.0241	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0269	0.1874	0.7054	1.4700e-003		7.1300e-003	7.1300e-003		6.7200e-003	6.7200e-003	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716
Total	0.0269	0.1874	0.7054	1.4700e-003	0.0444	7.1300e-003	0.0515	0.0241	6.7200e-003	0.0308	0.0000	128.4368	128.4368	0.0414	0.0000	129.4716

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3.6 Bay Trail Grading - 2023

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	5.4000e-004	0.0173	5.0300e-003	8.0000e-005	8.7500e-003	3.0000e-005	8.7800e-003	2.2000e-003	3.0000e-005	2.2300e-003	0.0000	7.6175	7.6175	3.0000e-004	0.0000	7.6249
Vendor	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
Worker	1.3300e-003	8.6000e-004	9.5700e-003	3.0000e-005	3.9200e-003	2.0000e-005	3.9500e-003	1.0400e-003	2.0000e-005	1.0700e-003	0.0000	3.0714	3.0714	6.0000e-005	0.0000	3.0729
Total	1.8700e-003	0.0182	0.0146	1.1000e-004	0.0127	5.0000e-005	0.0127	3.2400e-003	5.0000e-005	3.3000e-003	0.0000	10.6888	10.6888	3.6000e-004	0.0000	10.6977

3.7 Building Construction - 2022

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	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	5.1200e-003	0.0469	0.0491	8.0000e-005		2.4300e-003	2.4300e-003		2.2800e-003	2.2800e-003	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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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	4.3800e-003	0.1400	0.0353	3.8000e-004	9.4300e-003	2.9000e-004	9.7200e-003	2.7300e-003	2.8000e-004	3.0000e-003	0.0000	36.7183	36.7183	1.6300e-003	0.0000	36.7591
Worker	0.0141	9.4800e-003	0.1028	3.5000e-004	0.0387	2.5000e-004	0.0390	0.0103	2.3000e-004	0.0105	0.0000	31.5607	31.5607	6.7000e-004	0.0000	31.5774
Total	0.0184	0.1495	0.1381	7.3000e-004	0.0482	5.4000e-004	0.0487	0.0130	5.1000e-004	0.0135	0.0000	68.2790	68.2790	2.3000e-003	0.0000	68.3365

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	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934
Total	9.8000e-004	6.7000e-003	0.0524	8.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.9518	6.9518	1.6700e-003	0.0000	6.9934

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3.7 Building Construction - 2022

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	4.3800e-003	0.1400	0.0353	3.8000e-004	9.4300e-003	2.9000e-004	9.7200e-003	2.7300e-003	2.8000e-004	3.0000e-003	0.0000	36.7183	36.7183	1.6300e-003	0.0000	36.7591
Worker	0.0141	9.4800e-003	0.1028	3.5000e-004	0.0387	2.5000e-004	0.0390	0.0103	2.3000e-004	0.0105	0.0000	31.5607	31.5607	6.7000e-004	0.0000	31.5774
Total	0.0184	0.1495	0.1381	7.3000e-004	0.0482	5.4000e-004	0.0487	0.0130	5.1000e-004	0.0135	0.0000	68.2790	68.2790	2.3000e-003	0.0000	68.3365

3.7 Building Construction - 2023

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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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	0.1431	4.6177	1.3639	0.0162	0.4087	5.5100e-003	0.4142	0.1182	5.2700e-003	0.1234	0.0000	1,546.8359	1,546.8359	0.0582	0.0000	1,548.2905
Worker	0.5676	0.3688	4.0946	0.0145	1.6786	0.0104	1.6890	0.4464	9.6000e-003	0.4560	0.0000	1,314.5008	1,314.5008	0.0259	0.0000	1,315.1489
Total	0.7107	4.9865	5.4585	0.0307	2.0873	0.0159	2.1032	0.5646	0.0149	0.5795	0.0000	2,861.3367	2,861.3367	0.0841	0.0000	2,863.4395

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	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.0426	0.2905	2.2698	3.5000e-003		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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3.7 Building Construction - 2023

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	0.1431	4.6177	1.3639	0.0162	0.4087	5.5100e-003	0.4142	0.1182	5.2700e-003	0.1234	0.0000	1,546.8359	1,546.8359	0.0582	0.0000	1,548.2905
Worker	0.5676	0.3688	4.0946	0.0145	1.6786	0.0104	1.6890	0.4464	9.6000e-003	0.4560	0.0000	1,314.5008	1,314.5008	0.0259	0.0000	1,315.1489
Total	0.7107	4.9865	5.4585	0.0307	2.0873	0.0159	2.1032	0.5646	0.0149	0.5795	0.0000	2,861.3367	2,861.3367	0.0841	0.0000	2,863.4395

3.7 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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

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3.7 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	0.1393	4.5917	1.3179	0.0162	0.4119	5.4400e-003	0.4173	0.1191	5.2000e-003	0.1243	0.0000	1,548.5528	1,548.5528	0.0571	0.0000	1,549.9791
Worker	0.5352	0.3351	3.8156	0.0141	1.6915	0.0103	1.7018	0.4499	9.4800e-003	0.4593	0.0000	1,271.4159	1,271.4159	0.0235	0.0000	1,272.0029
Total	0.6744	4.9268	5.1336	0.0302	2.1033	0.0157	2.1191	0.5689	0.0147	0.5836	0.0000	2,819.9687	2,819.9687	0.0805	0.0000	2,821.9820

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	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.0429	0.2928	2.2873	3.5300e-003		5.3400e-003	5.3400e-003		5.3400e-003	5.3400e-003	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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3.7 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	0.1393	4.5917	1.3179	0.0162	0.4119	5.4400e-003	0.4173	0.1191	5.2000e-003	0.1243	0.0000	1,548.5528	1,548.5528	0.0571	0.0000	1,549.9791
Worker	0.5352	0.3351	3.8156	0.0141	1.6915	0.0103	1.7018	0.4499	9.4800e-003	0.4593	0.0000	1,271.4159	1,271.4159	0.0235	0.0000	1,272.0029
Total	0.6744	4.9268	5.1336	0.0302	2.1033	0.0157	2.1191	0.5689	0.0147	0.5836	0.0000	2,819.9687	2,819.9687	0.0805	0.0000	2,821.9820

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1346	4.5106	1.2702	0.0160	0.4103	5.3000e-003	0.4156	0.1186	5.0600e-003	0.1237	0.0000	1,532.8798	1,532.8798	0.0553	0.0000	1,534.2628
Worker	0.5017	0.3029	3.5158	0.0134	1.6850	0.0101	1.6951	0.4481	9.3000e-003	0.4574	0.0000	1,214.2945	1,214.2945	0.0212	0.0000	1,214.8235
Total	0.6363	4.8135	4.7860	0.0294	2.0953	0.0154	2.1107	0.5668	0.0144	0.5811	0.0000	2,747.1742	2,747.1742	0.0765	0.0000	2,749.0862

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1346	4.5106	1.2702	0.0160	0.4103	5.3000e-003	0.4156	0.1186	5.0600e-003	0.1237	0.0000	1,532.8798	1,532.8798	0.0553	0.0000	1,534.2628
Worker	0.5017	0.3029	3.5158	0.0134	1.6850	0.0101	1.6951	0.4481	9.3000e-003	0.4574	0.0000	1,214.2945	1,214.2945	0.0212	0.0000	1,214.8235
Total	0.6363	4.8135	4.7860	0.0294	2.0953	0.0154	2.1107	0.5668	0.0144	0.5811	0.0000	2,747.1742	2,747.1742	0.0765	0.0000	2,749.0862

3.7 Building Construction - 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					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 Building Construction - 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	0.0000	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	0.1310	4.4479	1.2382	0.0159	0.4103	5.1700e-003	0.4155	0.1186	4.9400e-003	0.1236	0.0000	1,523.9971	1,523.9971	0.0539	0.0000	1,525.3448
Worker	0.4745	0.2767	3.2700	0.0129	1.6850	9.8100e-003	1.6948	0.4481	9.0300e-003	0.4572	0.0000	1,168.4922	1,168.4922	0.0192	0.0000	1,168.9730
Total	0.6055	4.7246	4.5082	0.0288	2.0953	0.0150	2.1103	0.5668	0.0140	0.5807	0.0000	2,692.4893	2,692.4893	0.0731	0.0000	2,694.3178

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 Building Construction - 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	0.0000	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	0.1310	4.4479	1.2382	0.0159	0.4103	5.1700e-003	0.4155	0.1186	4.9400e-003	0.1236	0.0000	1,523.9971	1,523.9971	0.0539	0.0000	1,525.3448
Worker	0.4745	0.2767	3.2700	0.0129	1.6850	9.8100e-003	1.6948	0.4481	9.0300e-003	0.4572	0.0000	1,168.4922	1,168.4922	0.0192	0.0000	1,168.9730
Total	0.6055	4.7246	4.5082	0.0288	2.0953	0.0150	2.1103	0.5668	0.0140	0.5807	0.0000	2,692.4893	2,692.4893	0.0731	0.0000	2,694.3178

3.7 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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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3.7 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	0.1280	4.3843	1.2126	0.0158	0.4103	5.0400e-003	0.4154	0.1186	4.8200e-003	0.1235	0.0000	1,515.6354	1,515.6354	0.0526	0.0000	1,516.9499
Worker	0.4486	0.2536	3.0539	0.0125	1.6850	9.3100e-003	1.6943	0.4481	8.5700e-003	0.4567	0.0000	1,128.0446	1,128.0446	0.0175	0.0000	1,128.4830
Total	0.5765	4.6380	4.2665	0.0283	2.0953	0.0144	2.1097	0.5668	0.0134	0.5802	0.0000	2,643.6800	2,643.6800	0.0701	0.0000	2,645.4329

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	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.0428	0.2916	2.2786	3.5200e-003		5.3200e-003	5.3200e-003		5.3200e-003	5.3200e-003	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.7 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	0.1280	4.3843	1.2126	0.0158	0.4103	5.0400e-003	0.4154	0.1186	4.8200e-003	0.1235	0.0000	1,515.6354	1,515.6354	0.0526	0.0000	1,516.9499
Worker	0.4486	0.2536	3.0539	0.0125	1.6850	9.3100e-003	1.6943	0.4481	8.5700e-003	0.4567	0.0000	1,128.0446	1,128.0446	0.0175	0.0000	1,128.4830
Total	0.5765	4.6380	4.2665	0.0283	2.0953	0.0144	2.1097	0.5668	0.0134	0.5802	0.0000	2,643.6800	2,643.6800	0.0701	0.0000	2,645.4329

3.7 Building Construction - 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	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724
Total	0.1634	1.4901	1.9221	3.2200e-003		0.0630	0.0630		0.0593	0.0593	0.0000	277.1438	277.1438	0.0652	0.0000	278.7724

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3.7 Building Construction - 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	0.1149	3.9662	1.0940	0.0144	0.3758	4.5100e-003	0.3803	0.1086	4.3100e-003	0.1129	0.0000	1,381.5206	1,381.5206	0.0471	0.0000	1,382.6969
Worker	0.3867	0.2136	2.6234	0.0111	1.5430	7.9100e-003	1.5509	0.4104	7.2800e-003	0.4176	0.0000	1,000.4770	1,000.4770	0.0147	0.0000	1,000.8450
Total	0.5016	4.1798	3.7174	0.0255	1.9187	0.0124	1.9311	0.5190	0.0116	0.5306	0.0000	2,381.9976	2,381.9976	0.0618	0.0000	2,383.5419

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	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721
Total	0.0392	0.2671	2.0865	3.2200e-003		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	277.1434	277.1434	0.0652	0.0000	278.7721

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

3.7 Building Construction - 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	0.1149	3.9662	1.0940	0.0144	0.3758	4.5100e-003	0.3803	0.1086	4.3100e-003	0.1129	0.0000	1,381.5206	1,381.5206	0.0471	0.0000	1,382.6969
Worker	0.3867	0.2136	2.6234	0.0111	1.5430	7.9100e-003	1.5509	0.4104	7.2800e-003	0.4176	0.0000	1,000.4770	1,000.4770	0.0147	0.0000	1,000.8450
Total	0.5016	4.1798	3.7174	0.0255	1.9187	0.0124	1.9311	0.5190	0.0116	0.5306	0.0000	2,381.9976	2,381.9976	0.0618	0.0000	2,383.5419

3.8 Architectural Coating - 2023

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					
Archit. Coating	10.9341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0659	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633
Total	11.0000	0.4482	0.6230	1.0200e-003		0.0244	0.0244		0.0244	0.0244	0.0000	87.8319	87.8319	5.2500e-003	0.0000	87.9633

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3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090
Total	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090

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					
Archit. Coating	10.9341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632
Total	10.9443	0.0443	0.6304	1.0200e-003		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	87.8318	87.8318	5.2500e-003	0.0000	87.9632

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

3.8 Architectural Coating - 2023

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	0.0000	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
Worker	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090
Total	0.0376	0.0244	0.2712	9.6000e-004	0.1112	6.9000e-004	0.1119	0.0296	6.4000e-004	0.0302	0.0000	87.0661	87.0661	1.7200e-003	0.0000	87.1090

3.8 Architectural Coating - 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					
Archit. Coating	3.0514					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.0687	0.1170	0.1738	2.9000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

3.8 Architectural Coating - 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	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
Worker	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325
Total	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325

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					
Archit. Coating	3.0514					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457
Total	3.0542	0.0124	0.1759	2.9000e-004		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	24.5112	24.5112	1.3800e-003	0.0000	24.5457

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

3.8 Architectural Coating - 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	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
Worker	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325
Total	9.8200e-003	6.1500e-003	0.0700	2.6000e-004	0.0310	1.9000e-004	0.0312	8.2500e-003	1.7000e-004	8.4300e-003	0.0000	23.3217	23.3217	4.3000e-004	0.0000	23.3325

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa 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	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.752 2	8,210.752 2	0.3601	0.0000	8,219.755 2
Unmitigated	2.8315	5.9565	29.6945	0.0889	5.1752	0.0701	5.2453	1.4699	0.0654	1.5353	0.0000	8,210.752 2	8,210.752 2	0.3601	0.0000	8,219.755 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,814.40	1,972.32	1669.92	4,194,986	4,194,986
Apartments Low Rise	1,620.00	1,761.00	1491.00	3,745,523	3,745,523
Apartments Mid Rise	1,375.50	1,319.50	1211.00	3,104,112	3,104,112
City Park	56.70	682.50	502.20	447,770	447,770
City Park	5.16	62.11	45.70	40,747	40,747
Convenience Market (24 Hour)	0.00	0.00	0.00		
Office Park	2,088.42	301.38	138.28	3,896,052	3,896,052
Office Park	1,354.70	195.50	89.70	2,527,264	2,527,264
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Quality Restaurant	230.60	241.90	185.00	434,993	434,993
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Regional Shopping Center	230.60	269.80	136.30	434,635	434,635
Single Family Housing	1,893.34	1,970.06	1715.24	4,339,422	4,339,422
Unenclosed Parking Structure	202.00	202.00	202.00	153,839	153,839
Total	11,332.62	9,489.77	7,707.64	24,188,972	24,188,972

4.3 Trip Type Information

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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
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	60	40	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Unenclosed Parking Structure	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Apartments Mid Rise	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
City Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Convenience Market (24 Hour)	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Office Park	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Quality Restaurant	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Regional Shopping Center	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Single Family Housing	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843
Unenclosed Parking Structure	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843

5.0 Energy Detail

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,122.5774	1,122.5774	0.1819	0.0220	1,133.6930
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,122.5774	1,122.5774	0.1819	0.0220	1,133.6930
NaturalGas Mitigated	0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,861.5164	1,861.5164	0.0357	0.0341	1,872.5785
NaturalGas Unmitigated	0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,861.5164	1,861.5164	0.0357	0.0341	1,872.5785

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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					
Apartments Low Rise	4.3912e+006	0.0237	0.2023	0.0861	1.2900e-003		0.0164	0.0164		0.0164	0.0164	0.0000	234.3313	234.3313	4.4900e-003	4.3000e-003	235.7238
Apartments Low Rise	4.91815e+006	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183	0.0000	262.4510	262.4510	5.0300e-003	4.8100e-003	264.0106
Apartments Mid Rise	2.21618e+006	0.0120	0.1021	0.0435	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	118.2639	118.2639	2.2700e-003	2.1700e-003	118.9667
City Park	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
Convenience Market (24 Hour)	30000	1.6000e-004	1.4700e-003	1.2400e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6009	1.6009	3.0000e-005	3.0000e-005	1.6104
Office Park	4.6828e+006	0.0253	0.2296	0.1928	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	249.8920	249.8920	4.7900e-003	4.5800e-003	251.3770
Office Park	7.21905e+006	0.0389	0.3539	0.2973	2.1200e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.2357	385.2357	7.3800e-003	7.0600e-003	387.5250
Quality Restaurant	1.693e+006	0.0183	0.1660	0.1394	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	180.6899	180.6899	3.4600e-003	3.3100e-003	181.7636
Regional Shopping Center	54800	5.9000e-004	5.3700e-003	4.5100e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8487	5.8487	1.1000e-004	1.1000e-004	5.8834
Single Family Housing	7.93052e+006	0.0428	0.3654	0.1555	2.3300e-003		0.0296	0.0296		0.0296	0.0296	0.0000	423.2030	423.2030	8.1100e-003	7.7600e-003	425.7179
Unenclosed Parking Structure	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		0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,861.5164	1,861.5164	0.0357	0.0341	1,872.5785

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas 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					
Apartments Low Rise	4.3912e+006	0.0237	0.2023	0.0861	1.2900e-003		0.0164	0.0164		0.0164	0.0164	0.0000	234.3313	234.3313	4.4900e-003	4.3000e-003	235.7238
Apartments Low Rise	4.91815e+006	0.0265	0.2266	0.0964	1.4500e-003		0.0183	0.0183		0.0183	0.0183	0.0000	262.4510	262.4510	5.0300e-003	4.8100e-003	264.0106
Apartments Mid Rise	2.21618e+006	0.0120	0.1021	0.0435	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	118.2639	118.2639	2.2700e-003	2.1700e-003	118.9667
City Park	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
Convenience Market (24 Hour)	30000	1.6000e-004	1.4700e-003	1.2400e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6009	1.6009	3.0000e-005	3.0000e-005	1.6104
Office Park	4.6828e+006	0.0253	0.2296	0.1928	1.3800e-003		0.0175	0.0175		0.0175	0.0175	0.0000	249.8920	249.8920	4.7900e-003	4.5800e-003	251.3770
Office Park	7.21905e+006	0.0389	0.3539	0.2973	2.1200e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.2357	385.2357	7.3800e-003	7.0600e-003	387.5250
Quality Restaurant	1.693e+006	0.0183	0.1660	0.1394	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	180.6899	180.6899	3.4600e-003	3.3100e-003	181.7636
Regional Shopping Center	54800	5.9000e-004	5.3700e-003	4.5100e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8487	5.8487	1.1000e-004	1.1000e-004	5.8834
Single Family Housing	7.93052e+006	0.0428	0.3654	0.1555	2.3300e-003		0.0296	0.0296		0.0296	0.0296	0.0000	423.2030	423.2030	8.1100e-003	7.7600e-003	425.7179
Unenclosed Parking Structure	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		0.1881	1.6528	1.0167	0.0103		0.1300	0.1300		0.1300	0.1300	0.0000	1,861.5164	1,861.5164	0.0357	0.0341	1,872.5785

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	428979	39.6363	6.4200e-003	7.8000e-004	40.0287
Apartments Low Rise	480456	44.3926	7.1900e-003	8.7000e-004	44.8322
Apartments Mid Rise	1.65332e+006	152.7617	0.0248	3.0000e-003	154.2743
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	60700	5.6085	9.1000e-004	1.1000e-004	5.6640
Office Park	3.1073e+006	287.1045	0.0465	5.6400e-003	289.9473
Office Park	4.79024e+006	442.6028	0.0717	8.6900e-003	446.9853
Quality Restaurant	294800	54.4771	8.8300e-003	1.0700e-003	55.0166
Regional Shopping Center	109300	20.1979	3.2700e-003	4.0000e-004	20.3979
Single Family Housing	774732	71.5828	0.0116	1.4100e-003	72.2916
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,122.5774	0.1819	0.0221	1,133.6930

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Low Rise	428979	39.6363	6.4200e-003	7.8000e-004	40.0287
Apartments Low Rise	480456	44.3926	7.1900e-003	8.7000e-004	44.8322
Apartments Mid Rise	1.65332e+006	152.7617	0.0248	3.0000e-003	154.2743
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	60700	5.6085	9.1000e-004	1.1000e-004	5.6640
Office Park	3.1073e+006	287.1045	0.0465	5.6400e-003	289.9473
Office Park	4.79024e+006	442.6028	0.0717	8.6900e-003	446.9853
Quality Restaurant	294800	54.4771	8.8300e-003	1.0700e-003	55.0166
Regional Shopping Center	109300	20.1979	3.2700e-003	4.0000e-004	20.3979
Single Family Housing	774732	71.5828	0.0116	1.4100e-003	72.2916
Unenclosed Parking Structure	45600	4.2133	6.8000e-004	8.0000e-005	4.2550
Total		1,122.5774	0.1819	0.0221	1,133.6930

6.0 Area Detail

6.1 Mitigation Measures Area

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa 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	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Unmitigated	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

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	1.3985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.9812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa 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	1.3985					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.9812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0151	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974
Total	7.3949	0.1294	0.0550	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	149.8072	149.8072	2.8700e-003	2.7500e-003	150.6974

7.0 Water Detail

7.1 Mitigation Measures Water

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	198.9529	6.4258	0.1539	405.4548
Unmitigated	198.9529	6.4258	0.1539	405.4548

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	44.0441 / 27.7669	44.9729	1.4402	0.0345	91.2579
Apartments Mid Rise	22.8039 / 14.3764	23.2848	0.7457	0.0179	47.2489
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.226996	0.3761	0.0121	2.9000e-004	0.7653
Office Park	103.898 / 63.6793	105.4998	3.3973	0.0814	214.6777
Quality Restaurant	6.07067 / 0.38749	5.0863	0.1983	4.7300e-003	11.4549
Regional Shopping Center	1.48145 / 0.907986	1.5043	0.0484	1.1600e-003	3.0610
Single Family Housing	17.8522 / 11.2546	18.2287	0.5838	0.0140	36.9891
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		198.9529	6.4258	0.1539	405.4548

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	44.0441 / 27.7669	44.9729	1.4402	0.0345	91.2579
Apartments Mid Rise	22.8039 / 14.3764	23.2848	0.7457	0.0179	47.2489
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.370363 / 0.226996	0.3761	0.0121	2.9000e-004	0.7653
Office Park	103.898 / 63.6793	105.4998	3.3973	0.0814	214.6777
Quality Restaurant	6.07067 / 0.38749	5.0863	0.1983	4.7300e-003	11.4549
Regional Shopping Center	1.48145 / 0.907986	1.5043	0.0484	1.1600e-003	3.0610
Single Family Housing	17.8522 / 11.2546	18.2287	0.5838	0.0140	36.9891
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		198.9529	6.4258	0.1539	405.4548

8.0 Waste Detail

8.1 Mitigation Measures Waste

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	690.2383	40.7919	0.0000	1,710.036 2
Unmitigated	690.2383	40.7919	0.0000	1,710.036 2

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	781	158.5359	9.3692	0.0000	392.7661
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Office Park	533	108.1942	6.3941	0.0000	268.0465
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		690.2383	40.7919	0.0000	1,710.0362

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1420	288.2472	17.0349	0.0000	714.1202
Apartments Mid Rise	781	158.5359	9.3692	0.0000	392.7661
City Park	2.81	0.5704	0.0337	0.0000	1.4132
Convenience Market (24 Hour)	15.03	3.0510	0.1803	0.0000	7.5586
Office Park	533	108.1942	6.3941	0.0000	268.0465
Quality Restaurant	18.25	3.7046	0.2189	0.0000	9.1780
Regional Shopping Center	18.25	3.7046	0.2189	0.0000	9.1780
Single Family Housing	612	124.2305	7.3418	0.0000	307.7757
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		690.2383	40.7919	0.0000	1,710.0362

9.0 Operational Offroad

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

10.0 Stationary Equipment

Point Molate - Commercial Heavy - Full Build Out - Mitigated Construction - Unmitigated Operational - Contra Costa County, Annual

Fire Pumps and Emergency Generators

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

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

User Defined Equipment

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

11.0 Vegetation

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

**Point Molate - Wastewater treatment plant
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.66	1000sqft	0.13	5,660.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	203.7	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

Project Characteristics - Same operational year as Project. Updated electricity emission factors to incorporate RPS for 2024.

Land Use -

Construction Phase - No demolition, paving or achitectural coating.

Off-road Equipment - No architectural coating

Off-road Equipment - No demolition phase

Off-road Equipment -

Off-road Equipment - No paving phase

Off-road Equipment -

Off-road Equipment -

Trips and VMT - No trips associated with demolition, paving and architectural coating. 25 haul trips/day for plant installation.

Vehicle Trips - Worker trip emissions; estimating emissions from operational hauling trips separately.

Vehicle Emission Factors - Vehicle Emissions and Fleet Mix based on EMFAC 2017. See Air Quality Appendix Table A12 for EMFAC2017 inputs.

Road Dust - Updated silt loading factor is specific to Contra Costa county. See Air Quality Appendix Table EF2 for details.

Consumer Products - Consumer product emissions are not evaluated here

Area Coating - Architectural coating emissions are not evaluated here

Landscape Equipment - No landscaping equipment to be used

Energy Use - Energy use calculated based on equipment HP and operating hours provided by AES.

Water And Wastewater - Zero wastewater consumption.

Solid Waste - No Solid Waste

Construction Off-road Equipment Mitigation - Tier 4 construction equipment; BAAQMD construction best management practices

Fleet Mix - Fleet mix based on EMFAC 2017

Stationary Sources - Emergency Generators and Fire Pumps - Emergency generators evaluated outside of CalEEMod.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	150	0

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

tblAreaCoating	Area_EF_Residential_Exterior	150	0
tblAreaCoating	Area_EF_Residential_Interior	100	0
tblAreaCoating	Area_Nonresidential_Exterior	2830	0
tblAreaCoating	Area_Nonresidential_Interior	8490	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
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
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	100.00	2.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	5.00	0.00

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

tblEnergyUse	T24E	1.21	249.10
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.59	0.57
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.18	0.18
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	4.9730e-003	5.5120e-003
tblFleetMix	MCY	5.3010e-003	5.2670e-003
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	7.7100e-004	8.4300e-004
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	1.6400e-003	8.5200e-004
tblFleetMix	SBUS	2.7150e-003	1.2220e-003
tblFleetMix	UBUS	1.7060e-003	9.1200e-004
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	641.35	203.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblRoadDust	RoadSiltLoading	0.1	0.047
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	7.02	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	50.00
tblVehicleEF	HHD	0.41	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.58	6.28
tblVehicleEF	HHD	0.84	0.40
tblVehicleEF	HHD	2.87	5.3000e-003
tblVehicleEF	HHD	4,335.05	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.83	5.34
tblVehicleEF	HHD	1.90	2.66
tblVehicleEF	HHD	19.75	2.36
tblVehicleEF	HHD	7.9210e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	7.5790e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

tblVehicleEF	HHD	0.41	0.42
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3500e-004	0.00
tblVehicleEF	HHD	7.6000e-005	0.00
tblVehicleEF	HHD	4.1410e-003	1.0000e-004
tblVehicleEF	HHD	0.48	0.49
tblVehicleEF	HHD	5.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.4400e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.39	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	1.15	6.28
tblVehicleEF	HHD	0.85	0.40
tblVehicleEF	HHD	2.61	5.3000e-003
tblVehicleEF	HHD	4,592.60	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	14.28	5.34
tblVehicleEF	HHD	1.83	2.66
tblVehicleEF	HHD	19.74	2.36

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tblVehicleEF	HHD	6.6780e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	6.3890e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.39	0.42
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3100e-004	0.00
tblVehicleEF	HHD	2.0200e-004	0.00
tblVehicleEF	HHD	4.5990e-003	1.0000e-004
tblVehicleEF	HHD	0.45	0.49
tblVehicleEF	HHD	1.2500e-004	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.3800e-004	0.00
tblVehicleEF	HHD	0.07	0.00

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tblVehicleEF	HHD	0.45	0.02
tblVehicleEF	HHD	0.04	0.05
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.17	6.28
tblVehicleEF	HHD	0.83	0.40
tblVehicleEF	HHD	3.11	5.3000e-003
tblVehicleEF	HHD	3,979.39	1,039.23
tblVehicleEF	HHD	1,539.35	1,409.20
tblVehicleEF	HHD	8.78	0.04
tblVehicleEF	HHD	13.22	5.34
tblVehicleEF	HHD	1.93	2.66
tblVehicleEF	HHD	19.77	2.36
tblVehicleEF	HHD	9.6380e-003	2.6000e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1930e-003	0.02
tblVehicleEF	HHD	9.4000e-005	0.00
tblVehicleEF	HHD	9.2210e-003	2.5000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8110e-003	8.9000e-003
tblVehicleEF	HHD	5.9250e-003	0.02
tblVehicleEF	HHD	8.6000e-005	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.44	0.42
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.09	0.03

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tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	HHD	0.04	9.7000e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.3900e-004	0.00
tblVehicleEF	HHD	2.9000e-005	0.00
tblVehicleEF	HHD	4.3280e-003	1.0000e-004
tblVehicleEF	HHD	0.51	0.49
tblVehicleEF	HHD	2.1000e-005	0.00
tblVehicleEF	HHD	0.14	0.07
tblVehicleEF	HHD	3.8100e-004	0.00
tblVehicleEF	HHD	0.08	0.00
tblVehicleEF	LDA	3.2820e-003	1.8000e-003
tblVehicleEF	LDA	4.5120e-003	0.05
tblVehicleEF	LDA	0.48	0.52
tblVehicleEF	LDA	1.04	2.15
tblVehicleEF	LDA	229.87	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	0.03	0.04

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tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.2620e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.3010e-003	2.4000e-003
tblVehicleEF	LDA	5.4600e-004	5.0000e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	3.7280e-003	1.8000e-003
tblVehicleEF	LDA	3.6390e-003	0.05
tblVehicleEF	LDA	0.58	0.52
tblVehicleEF	LDA	0.80	2.15
tblVehicleEF	LDA	251.31	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.05	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003
tblVehicleEF	LDA	2.0950e-003	1.6000e-003

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tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	9.3650e-003	6.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.21
tblVehicleEF	LDA	2.5170e-003	2.4000e-003
tblVehicleEF	LDA	5.4200e-004	5.0000e-004
tblVehicleEF	LDA	0.07	0.04
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.06	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.05	0.23
tblVehicleEF	LDA	3.1830e-003	1.8000e-003
tblVehicleEF	LDA	5.1540e-003	0.05
tblVehicleEF	LDA	0.47	0.52
tblVehicleEF	LDA	1.24	2.15
tblVehicleEF	LDA	226.93	239.59
tblVehicleEF	LDA	52.85	50.81
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	1.6840e-003	1.3000e-003
tblVehicleEF	LDA	2.2790e-003	1.7000e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.5520e-003	1.2000e-003

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tblVehicleEF	LDA	2.0950e-003	1.6000e-003
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	8.0170e-003	6.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.2720e-003	2.4000e-003
tblVehicleEF	LDA	5.4900e-004	5.0000e-004
tblVehicleEF	LDA	9.2570e-003	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.04
tblVehicleEF	LDA	0.01	9.6000e-003
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDT1	6.8390e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.88	0.87
tblVehicleEF	LDT1	2.31	2.34
tblVehicleEF	LDT1	287.67	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.13	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02

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tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.15	0.32
tblVehicleEF	LDT1	2.8860e-003	2.8000e-003
tblVehicleEF	LDT1	7.0800e-004	6.0000e-004
tblVehicleEF	LDT1	0.08	0.09
tblVehicleEF	LDT1	0.21	0.18
tblVehicleEF	LDT1	0.07	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.08
tblVehicleEF	LDT1	0.16	0.35
tblVehicleEF	LDT1	7.6930e-003	3.8000e-003
tblVehicleEF	LDT1	8.8990e-003	0.07
tblVehicleEF	LDT1	1.05	0.87
tblVehicleEF	LDT1	1.76	2.34
tblVehicleEF	LDT1	313.61	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.08	0.07
tblVehicleEF	LDT1	0.11	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003
tblVehicleEF	LDT1	2.9260e-003	2.2000e-003

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tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.12	0.32
tblVehicleEF	LDT1	3.1480e-003	2.8000e-003
tblVehicleEF	LDT1	6.9900e-004	6.0000e-004
tblVehicleEF	LDT1	0.21	0.09
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	0.13	0.08
tblVehicleEF	LDT1	0.13	0.35
tblVehicleEF	LDT1	6.6770e-003	3.8000e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.87	0.87
tblVehicleEF	LDT1	2.76	2.34
tblVehicleEF	LDT1	284.11	287.73
tblVehicleEF	LDT1	66.83	61.75
tblVehicleEF	LDT1	0.10	0.07
tblVehicleEF	LDT1	0.14	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	2.0930e-003	1.7000e-003

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tblVehicleEF	LDT1	2.9260e-003	2.2000e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	1.9260e-003	1.5000e-003
tblVehicleEF	LDT1	2.6900e-003	2.0000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	2.8500e-003	2.8000e-003
tblVehicleEF	LDT1	7.1600e-004	6.0000e-004
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.03	0.08
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.17	0.08
tblVehicleEF	LDT1	0.19	0.35
tblVehicleEF	LDT2	4.4150e-003	2.9000e-003
tblVehicleEF	LDT2	5.8360e-003	0.06
tblVehicleEF	LDT2	0.62	0.70
tblVehicleEF	LDT2	1.34	2.74
tblVehicleEF	LDT2	323.78	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.26
tblVehicleEF	LDT2	0.04	0.04

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tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.2420e-003	3.0000e-003
tblVehicleEF	LDT2	7.6900e-004	7.0000e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.0080e-003	2.9000e-003
tblVehicleEF	LDT2	4.7080e-003	0.06
tblVehicleEF	LDT2	0.75	0.70
tblVehicleEF	LDT2	1.03	2.74
tblVehicleEF	LDT2	353.38	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.08	0.26

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tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.06	0.29
tblVehicleEF	LDT2	3.5390e-003	3.0000e-003
tblVehicleEF	LDT2	7.6400e-004	7.0000e-004
tblVehicleEF	LDT2	0.09	0.06
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.32
tblVehicleEF	LDT2	4.2820e-003	2.9000e-003
tblVehicleEF	LDT2	6.6640e-003	0.06
tblVehicleEF	LDT2	0.60	0.70
tblVehicleEF	LDT2	1.58	2.74
tblVehicleEF	LDT2	319.73	307.00
tblVehicleEF	LDT2	74.71	66.18
tblVehicleEF	LDT2	0.07	0.06

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tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	1.6770e-003	1.3000e-003
tblVehicleEF	LDT2	2.3140e-003	1.7000e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.5420e-003	1.2000e-003
tblVehicleEF	LDT2	2.1270e-003	1.6000e-003
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.2010e-003	3.0000e-003
tblVehicleEF	LDT2	7.7400e-004	7.0000e-004
tblVehicleEF	LDT2	0.01	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.10	0.32
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.99	0.77
tblVehicleEF	LHD1	2.29	0.99

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tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.39	0.94
tblVehicleEF	LHD1	0.94	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	2.2690e-003	1.8000e-003

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tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3040e-003	1.0000e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	1.01	0.77
tblVehicleEF	LHD1	2.10	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.33	0.94
tblVehicleEF	LHD1	0.87	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01

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tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.22	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.3800e-004	1.0000e-004
tblVehicleEF	LHD1	5.7400e-003	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.9740e-003	1.0000e-003
tblVehicleEF	LHD1	0.16	0.12
tblVehicleEF	LHD1	0.31	0.20
tblVehicleEF	LHD1	0.24	0.08
tblVehicleEF	LHD1	4.9090e-003	4.8000e-003
tblVehicleEF	LHD1	0.02	8.4000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.18
tblVehicleEF	LHD1	0.98	0.77
tblVehicleEF	LHD1	2.47	0.99
tblVehicleEF	LHD1	9.15	9.11
tblVehicleEF	LHD1	681.50	776.98
tblVehicleEF	LHD1	29.86	10.85

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tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	1.42	0.94
tblVehicleEF	LHD1	1.00	0.30
tblVehicleEF	LHD1	9.4400e-004	9.0000e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.9000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	8.5100e-004	2.0000e-004
tblVehicleEF	LHD1	9.0300e-004	9.0000e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5520e-003	2.5000e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	7.8200e-004	2.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003
tblVehicleEF	LHD1	0.13	0.10
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.1000e-005	1.0000e-004
tblVehicleEF	LHD1	6.6780e-003	7.6000e-003
tblVehicleEF	LHD1	3.4500e-004	1.0000e-004
tblVehicleEF	LHD1	8.1400e-004	1.8000e-003
tblVehicleEF	LHD1	0.11	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	5.8600e-004	1.0000e-003

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tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.35	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.0300e-003	6.9000e-003
tblVehicleEF	LHD2	5.6740e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	1.02	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.77	0.98
tblVehicleEF	LHD2	0.40	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03

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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4300e-004	1.0000e-004
tblVehicleEF	LHD2	6.3300e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9400e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	7.1180e-003	6.9000e-003
tblVehicleEF	LHD2	5.3450e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.56	0.64
tblVehicleEF	LHD2	0.94	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.74	0.98
tblVehicleEF	LHD2	0.38	0.17

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tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.07	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4200e-004	1.0000e-004
tblVehicleEF	LHD2	1.5900e-003	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9600e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.05	0.08
tblVehicleEF	LHD2	0.08	0.04

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tblVehicleEF	LHD2	3.0810e-003	2.9000e-003
tblVehicleEF	LHD2	6.9590e-003	6.9000e-003
tblVehicleEF	LHD2	5.9550e-003	7.3000e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.55	0.64
tblVehicleEF	LHD2	1.09	0.55
tblVehicleEF	LHD2	14.17	14.31
tblVehicleEF	LHD2	700.23	754.66
tblVehicleEF	LHD2	22.53	7.04
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.78	0.98
tblVehicleEF	LHD2	0.42	0.17
tblVehicleEF	LHD2	1.2540e-003	1.5000e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.6400e-004	1.0000e-004
tblVehicleEF	LHD2	1.2000e-003	1.4000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7050e-003	2.7000e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	3.3500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.11	0.12

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tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.08	0.04
tblVehicleEF	LHD2	1.3800e-004	1.0000e-004
tblVehicleEF	LHD2	6.8040e-003	7.3000e-003
tblVehicleEF	LHD2	2.4500e-004	1.0000e-004
tblVehicleEF	LHD2	2.4600e-004	8.0000e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.8000e-004	5.0000e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.16	0.26
tblVehicleEF	MCY	19.70	20.00
tblVehicleEF	MCY	10.22	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.16	1.16
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.88	0.89

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tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.27	2.29
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.23	1.98
tblVehicleEF	MCY	2.1230e-003	2.1000e-003
tblVehicleEF	MCY	6.8900e-004	6.0000e-004
tblVehicleEF	MCY	0.88	0.89
tblVehicleEF	MCY	0.74	0.75
tblVehicleEF	MCY	0.55	0.56
tblVehicleEF	MCY	2.81	2.82
tblVehicleEF	MCY	0.60	0.56
tblVehicleEF	MCY	2.43	2.15
tblVehicleEF	MCY	0.44	0.34
tblVehicleEF	MCY	0.13	0.26
tblVehicleEF	MCY	18.98	20.00
tblVehicleEF	MCY	8.86	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.02	1.16
tblVehicleEF	MCY	0.29	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003
tblVehicleEF	MCY	3.4690e-003	2.8000e-003

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tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.18	2.29
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.83	1.98
tblVehicleEF	MCY	2.1090e-003	2.1000e-003
tblVehicleEF	MCY	6.5400e-004	6.0000e-004
tblVehicleEF	MCY	2.59	0.89
tblVehicleEF	MCY	1.06	0.75
tblVehicleEF	MCY	1.70	0.56
tblVehicleEF	MCY	2.70	2.82
tblVehicleEF	MCY	0.56	0.56
tblVehicleEF	MCY	1.99	2.15
tblVehicleEF	MCY	0.47	0.34
tblVehicleEF	MCY	0.19	0.26
tblVehicleEF	MCY	21.47	20.00
tblVehicleEF	MCY	11.78	9.07
tblVehicleEF	MCY	173.46	213.40
tblVehicleEF	MCY	45.58	61.71
tblVehicleEF	MCY	1.25	1.16
tblVehicleEF	MCY	0.35	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0890e-003	2.0000e-003
tblVehicleEF	MCY	3.6840e-003	3.0000e-003
tblVehicleEF	MCY	5.0400e-003	5.0000e-003
tblVehicleEF	MCY	1.9530e-003	1.9000e-003

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tblVehicleEF	MCY	3.4690e-003	2.8000e-003
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.37	2.29
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.62	1.98
tblVehicleEF	MCY	2.1550e-003	2.1000e-003
tblVehicleEF	MCY	7.2600e-004	6.0000e-004
tblVehicleEF	MCY	0.17	0.89
tblVehicleEF	MCY	0.85	0.75
tblVehicleEF	MCY	0.16	0.56
tblVehicleEF	MCY	2.94	2.82
tblVehicleEF	MCY	0.70	0.56
tblVehicleEF	MCY	2.85	2.15
tblVehicleEF	MDV	8.6020e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.97	0.82
tblVehicleEF	MDV	2.71	3.10
tblVehicleEF	MDV	443.89	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.24	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02

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tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4430e-003	3.8000e-003
tblVehicleEF	MDV	1.0620e-003	8.0000e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	9.7400e-003	3.8000e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.18	0.82
tblVehicleEF	MDV	2.08	3.10
tblVehicleEF	MDV	483.31	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.21	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003
tblVehicleEF	MDV	2.3930e-003	1.8000e-003

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tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.16	0.38
tblVehicleEF	MDV	4.8400e-003	3.8000e-003
tblVehicleEF	MDV	1.0500e-003	8.0000e-004
tblVehicleEF	MDV	0.15	0.07
tblVehicleEF	MDV	0.20	0.15
tblVehicleEF	MDV	0.14	0.08
tblVehicleEF	MDV	0.04	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.42
tblVehicleEF	MDV	8.3570e-003	3.8000e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	0.96	0.82
tblVehicleEF	MDV	3.22	3.10
tblVehicleEF	MDV	438.49	379.50
tblVehicleEF	MDV	101.43	81.06
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.26	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	1.7420e-003	1.5000e-003

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tblVehicleEF	MDV	2.3930e-003	1.8000e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.6050e-003	1.3000e-003
tblVehicleEF	MDV	2.2000e-003	1.7000e-003
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.23	0.38
tblVehicleEF	MDV	4.3890e-003	3.8000e-003
tblVehicleEF	MDV	1.0710e-003	8.0000e-004
tblVehicleEF	MDV	0.02	0.07
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.03	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.12	0.06
tblVehicleEF	MDV	0.25	0.42
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.46	0.85
tblVehicleEF	MH	4.96	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.34	1.52
tblVehicleEF	MH	0.78	0.24
tblVehicleEF	MH	0.13	0.13

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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.6600e-004	2.0000e-004
tblVehicleEF	MH	0.68	0.58
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.27	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.32	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.52	0.85
tblVehicleEF	MH	4.45	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73

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tblVehicleEF	MH	1.26	1.52
tblVehicleEF	MH	0.72	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.27	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.5800e-004	2.0000e-004
tblVehicleEF	MH	1.73	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.63	0.23
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.10
tblVehicleEF	MH	0.02	9.3000e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.41	0.85

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tblVehicleEF	MH	5.39	1.96
tblVehicleEF	MH	1,212.36	1,512.95
tblVehicleEF	MH	57.99	17.73
tblVehicleEF	MH	1.38	1.52
tblVehicleEF	MH	0.83	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	9.7500e-004	2.0000e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2290e-003	3.3000e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	8.9700e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7400e-004	2.0000e-004
tblVehicleEF	MH	0.23	0.58
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.12	0.23
tblVehicleEF	MH	0.10	0.08
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.34	0.10

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tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.4400e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.37	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.47	1.19
tblVehicleEF	MHD	134.03	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.38	0.52
tblVehicleEF	MHD	1.11	1.47
tblVehicleEF	MHD	10.23	1.66
tblVehicleEF	MHD	1.4100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.3500e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.05

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tblVehicleEF	MHD	1.2910e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0200e-004	1.0000e-004
tblVehicleEF	MHD	7.9700e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	4.6600e-004	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.06
tblVehicleEF	MHD	0.01	4.0000e-003
tblVehicleEF	MHD	4.5430e-003	2.1000e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.43
tblVehicleEF	MHD	0.36	0.27
tblVehicleEF	MHD	4.98	1.19
tblVehicleEF	MHD	142.13	84.01
tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.40	0.52
tblVehicleEF	MHD	1.07	1.47
tblVehicleEF	MHD	10.17	1.66
tblVehicleEF	MHD	1.1900e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.1400e-004	5.0000e-004

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tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.31	0.05
tblVehicleEF	MHD	1.3670e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	6.9400e-004	1.0000e-004
tblVehicleEF	MHD	2.0780e-003	4.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	1.1250e-003	2.0000e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	0.02	4.0000e-003
tblVehicleEF	MHD	4.3600e-003	2.1000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.35	0.27
tblVehicleEF	MHD	5.94	1.19
tblVehicleEF	MHD	123.22	84.01

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tblVehicleEF	MHD	1,189.25	1,109.33
tblVehicleEF	MHD	60.64	10.07
tblVehicleEF	MHD	0.37	0.52
tblVehicleEF	MHD	1.13	1.47
tblVehicleEF	MHD	10.28	1.66
tblVehicleEF	MHD	1.7100e-004	5.0000e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	3.2360e-003	7.2000e-003
tblVehicleEF	MHD	8.9200e-004	1.0000e-004
tblVehicleEF	MHD	1.6400e-004	5.0000e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0890e-003	6.9000e-003
tblVehicleEF	MHD	8.2100e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	1.1890e-003	8.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	1.0000e-004
tblVehicleEF	MHD	2.7800e-004	4.0000e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02

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tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.3020e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.53	0.98
tblVehicleEF	OBUS	5.50	2.88
tblVehicleEF	OBUS	71.68	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.14	0.23
tblVehicleEF	OBUS	0.75	1.13
tblVehicleEF	OBUS	2.17	0.68
tblVehicleEF	OBUS	1.3000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.2000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09

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tblVehicleEF	OBUS	0.34	0.14
tblVehicleEF	OBUS	6.9600e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.8700e-004	2.0000e-004
tblVehicleEF	OBUS	1.1280e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	5.5800e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.37	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.5680e-003	9.0000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.24	0.50
tblVehicleEF	OBUS	0.55	0.98
tblVehicleEF	OBUS	4.94	2.88
tblVehicleEF	OBUS	74.94	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.15	0.23
tblVehicleEF	OBUS	0.71	1.13
tblVehicleEF	OBUS	2.10	0.68
tblVehicleEF	OBUS	1.1000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004

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tblVehicleEF	OBUS	1.0000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.32	0.14
tblVehicleEF	OBUS	7.2700e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7700e-004	2.0000e-004
tblVehicleEF	OBUS	2.7740e-003	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.2950e-003	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.35	0.15
tblVehicleEF	OBUS	0.01	8.8000e-003
tblVehicleEF	OBUS	8.0920e-003	9.0000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.25	0.50
tblVehicleEF	OBUS	0.52	0.98
tblVehicleEF	OBUS	5.95	2.88

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tblVehicleEF	OBUS	67.19	65.66
tblVehicleEF	OBUS	1,277.67	1,496.24
tblVehicleEF	OBUS	69.06	21.75
tblVehicleEF	OBUS	0.13	0.23
tblVehicleEF	OBUS	0.77	1.13
tblVehicleEF	OBUS	2.23	0.68
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	2.3690e-003	6.1000e-003
tblVehicleEF	OBUS	8.6300e-004	2.0000e-004
tblVehicleEF	OBUS	1.5000e-005	1.0000e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	2.2410e-003	5.8000e-003
tblVehicleEF	OBUS	7.9300e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.36	0.14
tblVehicleEF	OBUS	6.5300e-004	6.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9500e-004	2.0000e-004
tblVehicleEF	OBUS	4.9300e-004	1.7000e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.06

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tblVehicleEF	OBUS	2.6500e-004	8.0000e-004
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.39	0.15
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1030e-003	2.6000e-003
tblVehicleEF	SBUS	0.06	1.3000e-003
tblVehicleEF	SBUS	2.09	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.33	0.19
tblVehicleEF	SBUS	1,440.18	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.22	2.23
tblVehicleEF	SBUS	4.78	2.75
tblVehicleEF	SBUS	19.18	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09

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tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2700e-004	0.00
tblVehicleEF	SBUS	4.1200e-004	1.0000e-004
tblVehicleEF	SBUS	4.0500e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	2.0500e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.7590e-003	1.6000e-003
tblVehicleEF	SBUS	0.07	8.0000e-003
tblVehicleEF	SBUS	0.87	0.02
tblVehicleEF	SBUS	6.1440e-003	2.6000e-003
tblVehicleEF	SBUS	0.05	1.3000e-003
tblVehicleEF	SBUS	1.93	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	0.91	0.19
tblVehicleEF	SBUS	1,522.68	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	13.64	2.23
tblVehicleEF	SBUS	4.59	2.75
tblVehicleEF	SBUS	19.17	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003

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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	9.5970e-003	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.24	0.09
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.05	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.2100e-004	0.00
tblVehicleEF	SBUS	1.0160e-003	1.0000e-004
tblVehicleEF	SBUS	4.2620e-003	8.0000e-004
tblVehicleEF	SBUS	0.33	0.12
tblVehicleEF	SBUS	4.7800e-004	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	1.5050e-003	1.6000e-003
tblVehicleEF	SBUS	0.06	8.0000e-003
tblVehicleEF	SBUS	0.88	0.02
tblVehicleEF	SBUS	6.0730e-003	2.6000e-003
tblVehicleEF	SBUS	0.07	1.3000e-003

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tblVehicleEF	SBUS	2.33	1.26
tblVehicleEF	SBUS	0.40	0.22
tblVehicleEF	SBUS	1.66	0.19
tblVehicleEF	SBUS	1,326.25	299.60
tblVehicleEF	SBUS	1,240.06	991.09
tblVehicleEF	SBUS	10.45	1.09
tblVehicleEF	SBUS	12.63	2.23
tblVehicleEF	SBUS	4.86	2.75
tblVehicleEF	SBUS	19.19	1.56
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.7600e-004	0.00
tblVehicleEF	SBUS	0.01	1.5000e-003
tblVehicleEF	SBUS	2.9310e-003	2.9000e-003
tblVehicleEF	SBUS	0.03	0.02
tblVehicleEF	SBUS	1.6200e-004	0.00
tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.25	0.09
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.11	0.04
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	7.3000e-003
tblVehicleEF	SBUS	0.01	2.8000e-003
tblVehicleEF	SBUS	0.01	9.4000e-003
tblVehicleEF	SBUS	1.3300e-004	0.00

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tblVehicleEF	SBUS	1.8000e-004	1.0000e-004
tblVehicleEF	SBUS	4.1040e-003	8.0000e-004
tblVehicleEF	SBUS	0.34	0.12
tblVehicleEF	SBUS	9.7000e-005	0.00
tblVehicleEF	SBUS	0.13	0.05
tblVehicleEF	SBUS	2.2590e-003	1.6000e-003
tblVehicleEF	SBUS	0.08	8.0000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.07	1.5000e-003
tblVehicleEF	UBUS	4.04	8.13
tblVehicleEF	UBUS	11.74	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.66	0.64
tblVehicleEF	UBUS	12.20	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02

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tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.98	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7290e-003	0.00
tblVehicleEF	UBUS	4.9640e-003	1.0000e-004
tblVehicleEF	UBUS	0.09	8.0000e-004
tblVehicleEF	UBUS	2.7550e-003	1.0000e-004
tblVehicleEF	UBUS	0.65	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	1.08	5.8000e-003
tblVehicleEF	UBUS	0.24	1.10
tblVehicleEF	UBUS	0.06	1.5000e-003
tblVehicleEF	UBUS	4.11	8.13
tblVehicleEF	UBUS	9.17	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.41	0.64
tblVehicleEF	UBUS	12.07	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003
tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004

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tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.39	0.02
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.85	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.6840e-003	0.00
tblVehicleEF	UBUS	0.01	1.0000e-004
tblVehicleEF	UBUS	0.11	8.0000e-004
tblVehicleEF	UBUS	6.3130e-003	1.0000e-004
tblVehicleEF	UBUS	0.66	1.12
tblVehicleEF	UBUS	0.02	1.0000e-004
tblVehicleEF	UBUS	0.93	5.8000e-003
tblVehicleEF	UBUS	0.23	1.10
tblVehicleEF	UBUS	0.08	1.5000e-003
tblVehicleEF	UBUS	4.00	8.13
tblVehicleEF	UBUS	14.08	0.25
tblVehicleEF	UBUS	1,955.59	1,559.20
tblVehicleEF	UBUS	151.51	2.75
tblVehicleEF	UBUS	5.77	0.64
tblVehicleEF	UBUS	12.31	0.03
tblVehicleEF	UBUS	0.49	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.9000e-003
tblVehicleEF	UBUS	1.3120e-003	0.00
tblVehicleEF	UBUS	0.21	0.03
tblVehicleEF	UBUS	3.0000e-003	7.2000e-003

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

tblVehicleEF	UBUS	0.10	4.7000e-003
tblVehicleEF	UBUS	1.2060e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.38	0.02
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.10	5.3000e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.7700e-003	0.00
tblVehicleEF	UBUS	1.8670e-003	1.0000e-004
tblVehicleEF	UBUS	0.10	8.0000e-004
tblVehicleEF	UBUS	1.2710e-003	1.0000e-004
tblVehicleEF	UBUS	0.64	1.12
tblVehicleEF	UBUS	0.03	1.0000e-004
tblVehicleEF	UBUS	1.20	5.8000e-003
tblWater	IndoorWaterUseRate	1,308,875.00	0.00

2.0 Emissions Summary

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-1-2023	4-30-2023	0.0232	0.0079
		Highest	0.0232	0.0079

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	7.6000e-004	6.8700e-003	5.7700e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	141.0671	141.0671	0.0218	2.7600e-003	142.4343
Mobile	8.5000e-003	0.0201	0.0987	3.2000e-004	0.0186	2.5000e-004	0.0189	5.2900e-003	2.3000e-004	5.5200e-003	0.0000	29.2898	29.2898	1.1400e-003	0.0000	29.3181
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	9.2600e-003	0.0269	0.1045	3.6000e-004	0.0186	7.7000e-004	0.0194	5.2900e-003	7.5000e-004	6.0400e-003	0.0000	170.3568	170.3568	0.0229	2.7600e-003	171.7524

Point Molate - Wastewater treatment plant - Contra Costa 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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	7.6000e-004	6.8700e-003	5.7700e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	141.0671	141.0671	0.0218	2.7600e-003	142.4343
Mobile	8.5000e-003	0.0201	0.0987	3.2000e-004	0.0186	2.5000e-004	0.0189	5.2900e-003	2.3000e-004	5.5200e-003	0.0000	29.2898	29.2898	1.1400e-003	0.0000	29.3181
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	9.2600e-003	0.0269	0.1045	3.6000e-004	0.0186	7.7000e-004	0.0194	5.2900e-003	7.5000e-004	6.0400e-003	0.0000	170.3568	170.3568	0.0229	2.7600e-003	171.7524

	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

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2023	1/31/2023	5	0	
2	Site Preparation	Site Preparation	2/15/2023	2/15/2023	5	1	
3	Grading	Grading	2/16/2023	2/17/2023	5	2	
4	Plant Installation	Building Construction	2/18/2023	2/21/2023	5	2	
5	Paving	Paving	7/8/2023	7/7/2023	5	0	
6	Architectural Coating	Architectural Coating	7/15/2023	7/14/2023	5	0	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 8,490; Non-Residential Outdoor: 2,830; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Plant Installation	Cranes	1	4.00	231	0.29
Plant Installation	Forklifts	2	6.00	89	0.20
Plant Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving		0		0	
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	7.00	130	0.42
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

3.2 Demolition - 2023

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	0.0000	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
Worker	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
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	0.0000	0.0000

3.3 Site Preparation - 2023

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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	3.0900e-003	1.9600e-003	0.0000		1.1000e-004	1.1000e-004		1.0000e-004	1.0000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309
Total	2.7000e-004	3.0900e-003	1.9600e-003	0.0000	2.7000e-004	1.1000e-004	3.8000e-004	3.0000e-005	1.0000e-004	1.3000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309

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3.3 Site Preparation - 2023

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	0.0000	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
Worker	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155
Total	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155

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					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	2.6000e-004	2.6600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309
Total	6.0000e-005	2.6000e-004	2.6600e-003	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309

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3.3 Site Preparation - 2023

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	0.0000	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
Worker	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155
Total	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0155	0.0155	0.0000	0.0000	0.0155

3.4 Grading - 2023

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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5000e-004	5.7800e-003	7.3900e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.7000e-004	2.7000e-004	0.0000	1.0418	1.0418	1.9000e-004	0.0000	1.0466
Total	6.5000e-004	5.7800e-003	7.3900e-003	1.0000e-005	7.5000e-004	2.8000e-004	1.0300e-003	4.1000e-004	2.7000e-004	6.8000e-004	0.0000	1.0418	1.0418	1.9000e-004	0.0000	1.0466

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3.4 Grading - 2023

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	0.0000	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
Worker	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0621	0.0621	0.0000	0.0000	0.0621
Total	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0621	0.0621	0.0000	0.0000	0.0621

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					3.4000e-004	0.0000	3.4000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3000e-004	5.7000e-004	7.8500e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.0418	1.0418	1.9000e-004	0.0000	1.0466
Total	1.3000e-004	5.7000e-004	7.8500e-003	1.0000e-005	3.4000e-004	2.0000e-005	3.6000e-004	1.9000e-004	2.0000e-005	2.1000e-004	0.0000	1.0418	1.0418	1.9000e-004	0.0000	1.0466

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3.4 Grading - 2023

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	0.0000	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
Worker	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0621	0.0621	0.0000	0.0000	0.0621
Total	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0621	0.0621	0.0000	0.0000	0.0621

3.5 Plant Installation - 2023

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	6.3000e-004	6.4200e-003	7.1000e-003	1.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	1.0021	1.0021	3.2000e-004	0.0000	1.0102
Total	6.3000e-004	6.4200e-003	7.1000e-003	1.0000e-005		3.2000e-004	3.2000e-004		2.9000e-004	2.9000e-004	0.0000	1.0021	1.0021	3.2000e-004	0.0000	1.0102

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3.5 Plant Installation - 2023

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	1.2000e-004	4.0400e-003	1.1700e-003	2.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.2000e-004	0.0000	1.7769	1.7769	7.0000e-005	0.0000	1.7787
Vendor	0.0000	7.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0249	0.0249	0.0000	0.0000	0.0249
Worker	1.0000e-005	0.0000	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0124	0.0124	0.0000	0.0000	0.0124
Total	1.3000e-004	4.1100e-003	1.2300e-003	2.0000e-005	4.5000e-004	1.0000e-005	4.6000e-004	1.2000e-004	1.0000e-005	1.2000e-004	0.0000	1.8142	1.8142	7.0000e-005	0.0000	1.8160

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	1.4000e-004	6.1000e-004	7.7300e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.0021	1.0021	3.2000e-004	0.0000	1.0102
Total	1.4000e-004	6.1000e-004	7.7300e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.0021	1.0021	3.2000e-004	0.0000	1.0102

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3.7 Architectural Coating - 2023

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	0.0000	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
Worker	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
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	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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	8.5000e-003	0.0201	0.0987	3.2000e-004	0.0186	2.5000e-004	0.0189	5.2900e-003	2.3000e-004	5.5200e-003	0.0000	29.2898	29.2898	1.1400e-003	0.0000	29.3181
Unmitigated	8.5000e-003	0.0201	0.0987	3.2000e-004	0.0186	2.5000e-004	0.0189	5.2900e-003	2.3000e-004	5.5200e-003	0.0000	29.2898	29.2898	1.1400e-003	0.0000	29.3181

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	39.45	7.47	3.85	86,989	86,989
Total	39.45	7.47	3.85	86,989	86,989

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.569666	0.055696	0.181867	0.121259	0.023191	0.005512	0.010894	0.022819	0.000852	0.000912	0.005267	0.001222	0.000843

5.0 Energy Detail

Historical Energy Use: N

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

5.1 Mitigation Measures Energy

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	133.5916	133.5916	0.0216	2.6200e-003	134.9144
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	133.5916	133.5916	0.0216	2.6200e-003	134.9144
NaturalGas Mitigated	7.6000e-004	6.8700e-003	5.7700e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4755	7.4755	1.4000e-004	1.4000e-004	7.5199
NaturalGas Unmitigated	7.6000e-004	6.8700e-003	5.7700e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4755	7.4755	1.4000e-004	1.4000e-004	7.5199

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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					
General Light Industry	140085	7.6000e-004	6.8700e-003	5.7700e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4755	7.4755	1.4000e-004	1.4000e-004	7.5199
Total		7.6000e-004	6.8700e-003	5.7700e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4755	7.4755	1.4000e-004	1.4000e-004	7.5199

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5.2 Energy by Land Use - NaturalGas

Mitigated

NaturalGas Use	Land Use	tons/yr													Total	
		CO _{2e}	CH ₄	Total CO ₂	NBIO- CO ₂	Bio- CO ₂	PM _{2.5} Total	Exhaust PM _{2.5}	Fugitive PM _{2.5}	PM ₁₀ Total	Exhaust PM ₁₀	Fugitive PM ₁₀	SO ₂	NOx		ROG
	General Light Industry	140085	7.6000e-004	6.8700e-003	5.7700e-003	4.0000e-005	5.2000e-004	5.2000e-004	5.2000e-004	5.2000e-004	5.2000e-004	4.0000e-005	5.2000e-004	5.2000e-004	5.2000e-004	7.5199
	Total	140085	7.6000e-004	6.8700e-003	5.7700e-003	4.0000e-005	5.2000e-004	5.2000e-004	5.2000e-004	5.2000e-004	5.2000e-004	4.0000e-005	5.2000e-004	5.2000e-004	5.2000e-004	7.5199

5.3 Energy by Land Use - Electricity

Unmitigated

Electricity Use	Land Use	kWh/yr				Total
		Total CO ₂	CH ₄	N ₂ O	CO _{2e}	
	General Light Industry	144585e+06	133.5916	0.0216	2.6200e-003	134.9144
	Total	144585e+06	133.5916	0.0216	2.6200e-003	134.9144

6.2 Area by SubCategory
Unmitigated

SubCategory	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
Architectural Coating	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

Mitigated

SubCategory	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
Architectural Coating	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

7.0 Water Detail

7.1 Mitigation Measures Water

Point Molate - Wastewater treatment plant - Contra Costa 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			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	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

Point Molate - Wastewater treatment plant - Contra Costa County, Annual

8.2 Waste by Land Use

Unmitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr		
General Light Industry	0	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000

Mitigated

Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr		
General Light Industry	0	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Point Molate - Wastewater treatment plant - Contra Costa County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

OPERATIONAL HRA

MEMO

Date: **July 9, 2020**

To: **Bibiana Alvarez, Project Manager, Analytical Environmental Services**

From: **Shari Beth Libicki, PhD**
Taylor Vencill, PE

Subject: **OPERATIONAL HEALTH RISK ASSESSMENT FOR THE DEVELOPMENT AT POINT MOLATE, RICHMOND, CALIFORNIA**

Ramboll US Corporation (Ramboll) conducted an operational Health Risk Assessment (HRA) for the proposed Project at Point Molate in Richmond, California ("the Project"). This memo summarizes the methods and assumptions used in the HRA and refers to more detailed assessments as relevant.

BACKGROUND

The Project consists of eight parcels of mixed-use development, where two scenarios are being considered, one residential heavy option and one commercial heavy option. Additionally, a potential onsite wastewater treatment plant (WWTP) may be included as part of the Project. For purposes of this Operational HRA, the residential heavy option is conservatively used for estimated traffic volume, as it is higher than the traffic volume estimated for the commercial heavy option. Potential operations with and without the onsite WWTP are also evaluated.

Potential sources of toxic air contaminants (TACs) due to the Project which are discussed below include: (1) Project-generated traffic (2) ferry operations (3) emergency generators, and (4) WWTP operations.

THRESHOLDS OF SIGNIFICANCE

The City of Richmond is the lead agency responsible for Project approval. Per City of Richmond requirements, Ramboll evaluated the Project in accordance with the current Bay Area Air Quality Management District (BAAQMD) California Environmental Quality Act (CEQA) Guidelines, which were updated in May 2017.¹ These guidelines present methods for evaluating compliance with CEQA as well as thresholds for determining significance. With respect to the operational HRA, the BAAQMD thresholds of significance are as follows:

- Increased cancer risk of >10.0 in a million

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¹ BAAQMD. 2017. California Environmental Quality Act (CEQA) Air Quality Guidelines. May. Available online at: http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en

- Increased non-cancer risk of > 1.0 HI (chronic or acute)
- Ambient PM_{2.5} increase: > 0.3 µg/m³ annual average

Ramboll evaluated each of these thresholds for both the maximum potential onsite sensitive receptor, and the maximum potential offsite sensitive receptor.

TRAFFIC IMPACTS

The Project-generated traffic could result in increased cancer risk and PM_{2.5} concentrations at the residences nearest to the roadways where the traffic is added. To evaluate potential health risk impacts for traffic generated by the Project, Ramboll used the BAAQMD Roadway Screening Analysis Calculator (BAAQMD, 2015).² Input parameters to the BAAQMD screening tool include Annual Average Daily Traffic (AADT), roadway direction, and distance of the closest residential receptor in each parcel to the edge of the roadway. Resulting cancer risks were multiplied by a factor of 1.3744 to account for the revised 2015 OEHHA Guidance, at the direction of the BAAQMD.³ The BAAQMD's screening tools do not estimate chronic or acute hazards. However, since the screening levels were found to be extremely low, there would be no chronic or acute hazard values associated with roadways.

For potential onsite impacts, the total annual average daily traffic (AADT) generated by the Project is about 10,980 (residential heavy option)⁴ and is assumed to all travel through Stenmark Drive which runs in a North-South direction along the Project. The nearest receptor distance ranges from 10 feet (at Parcel F) to 967 feet (at Parcel E) based on the shortest distance from the nearest receptor in a parcel to the roadway.

For potential offsite impacts, the nearest offsite sensitive receptor to the roadway was evaluated, as shown in **Figure 1**. Risks from project operational traffic at the offsite MEIR assume 49% of total project AADT to be allocated to nearby roadways (41% for Highway 580 volume and 8% for nearby local traffic, per the Project's Transportation Impact Analysis). Operational traffic impacting the offsite MEIR is assumed to occur along Highway 580 in the East-West direction, with the off-site MEIR located 100 feet to the South.

Potential risks from Project traffic are summarized in **Table 1**.

FERRY OPERATIONS

Ramboll understands that part of the Project includes refurbishing an existing ferry terminal, for use by residents or visitors of the Project. Project ferry operations are expected to include up to four daily ferry trips servicing Point Molate to the SF Ferry Terminal. Potential emissions include diesel particulate matter (DPM) from both idling and transit. Diesel exhaust, a complex mixture that includes hundreds of individual constituents, is identified by the State of California as a known carcinogen (California Environmental Protection Agency [Cal/EPA] 1998).⁵ Under California regulatory guidelines,

² BAAQMD. 2015. Roadway Screening Analysis Calculator. Contra Costa County. Available at: <http://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/ceqa-tools>

³ Email communication between Shari Beth Libicki (Ramboll) and Virginia Lau (Bay Area Air Quality Management District), February 3rd, 2016.

⁴ AADT is the average of travel during the week (including weekday and weekend travel), and is equivalent to average annual daily trips.

⁵ California Environmental Protection Agency (Cal/EPA), Office of Environmental Health Hazard Assessment (OEHHA). 1998. Findings of the Scientific Review Panel on The Report on Diesel Exhaust, as adopted at the Panel's April 22, 1998, meeting.

DPM is used as a surrogate measure of exposure for the mixture of chemicals that make up diesel exhaust as a whole.

Ferries were modeled assuming "large-sized" vessels (350-passenger, 8,000 horsepower per the 2003 WETA Program EIR⁶) and Tier 2 emission factors for ferry engines. According to this analysis, maximum cancer risk from ferry operations is calculated to be 2.0 in 1 million. Ferry operations under these assumptions would also result in a non-cancer hazard index of 0.001 and maximum PM_{2.5} concentration of 0.003 micrograms per cubic meter (µg/m³). It should be noted that since the time of this analysis, ferry operational assumptions have been refined to specify "small-sized" ferries (149-passenger, 2,900 horsepower) and Tier 4 emission factors for ferry engines. Additionally, water transport operations at the Project may alternatively involve the use of water taxis in place of ferries. Under this scenario, some or all of the vessels serving the Project may be electric-powered at the time of full Project build out.

EMERGENCY GENERATORS

Ramboll understands that the Project anticipates installation of five (5) emergency generators to support operations within commercial buildings in the Winehaven Historic District of the proposed Project area. Ramboll also understands that if the Project does not proceed with implementation of on-site wastewater treatment, emergency generators would be required at each of three (3) sewage pipeline lift stations which would transport wastewater to the municipal wastewater treatment plant. The proposed fire station will also be equipped with an emergency generator, estimated to be approximately 20 kW and fired on propane.

A complete health risk evaluation of all emergency generators was performed, as described in the 'Health Risk Assessment for Proposed Emergency Generator Operations' memo. According to the analysis, the maximum cancer risk impacts from emergency generator operations was calculated to be 1.5 in 1 million. Emergency generator operations under this configuration would also result in a chronic HI of 0.0004, and maximum PM_{2.5} concentration of 0.0021 micrograms per cubic meter (µg/m³).

WASTE WATER TREATMENT PLANT

Ramboll understands that the Project plans to include a potential on-site wastewater treatment plant (WWTP). Under this scenario, a stand-alone WWTP will be installed on the Project site, along with one (1) emergency generator servicing operations at the on-site facility. Two (2) additional emergency generators will be installed in order to service two lift stations which will connect the WWTP to piping infrastructure across the Project site. Ramboll also understands that if the Project does not proceed with implementation of on-site wastewater treatment, the two lift station emergency generators, along with a third offsite emergency generator would still be required for transport of wastewater to the local wastewater treatment plant.

The operation of the wastewater treatment plant and the associated wastewater treatment plant lift pump generators include process-related TACs such as benzene, diesel particulate matter emissions from the emergency generators, and PM_{2.5} emissions.

A complete health risk evaluation of the wastewater treatment plant was performed, as described in the 'Health Risk Assessment for Proposed Wastewater Treatment Plant Operations' memo. According

⁶ San Francisco Bay Ferry Water Emergency Transportation Authority (WETA). 2003. WETA Publications - 2003 Program Environmental Impact Report. Accessible online at: <https://weta.sanfranciscobayferry.com/publications>

to the analysis, maximum cancer risk from the operation of the WWTP and associated emergency generators is calculated to be 1.1 in a million. This would also result in a maximum chronic HI of 0.0039, a maximum acute HI of 0.028 and maximum PM_{2.5} concentration of 0.00081 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

Overall potential risks from Project operations (traffic, ferry, emergency generators and wastewater treatment plant) are summarized in **Tables 2 and 3**. As shown in the tables, potential risks from Project-related operational sources including traffic, ferries, generators and wastewater treatment plant are below BAAQMD significance thresholds.

Attachments:

Tables

Figures

TABLES

Table 1
Traffic-related Operational Health Risk Impacts
Point Molate
Richmond, California

Project Parcel	Annual Average Daily Traffic (AADT) ¹	Distance from Nearest Receptor to Roadway	Direction of Receptor from Roadway ²	Cancer Risk	PM _{2.5} Concentration
		(feet)		(in a million)	(µg/m ³)
Parcel A	10,980	78	East	3.3	0.064
Parcel B		42	East	5.6	0.109
Parcel C		164	East	2.1	0.040
Parcel D		82	West	3.9	0.072
Parcel E		967	West	0.44	0.0080
Parcel F		10	East	7.3	0.14
Parcel G		42	East	4.8	0.093
Parcel H		22	West	7.3	0.14
Offsite ³	5,380	100	South	1.4	0.027

Notes:

1. On-site traffic-related risks are estimated assuming a Project-generated AADT of 10,980 (averaged over weekday and weekend travel) as provided by the Project Traffic Impact Analysis. Screening-level chronic or acute hazards impacts were found to be extremely low, and thus there are no chronic or acute hazard values associated with roadways.
2. All traffic-related impacts are assumed to come from vehicles traveling on Stenmark Drive, which runs in a North-South direction along the Project site.
3. Off-site traffic-related risks are estimated assuming an AADT of 5,380 (49% of total project traffic) allocated to Highway 580 (41% for Highway volume and 8% for nearby local traffic). This estimate also assumes that the Offsite MEIR is 100 meters south of the nearest major roadway (I-580).

Abbreviations:

µg - microgram

AADT - Annual Average Daily Traffic

BAAQMD - Bay Area Air Quality Management District

HI - Hazard Index

m³ - cubic meter

MEIR - Maximally Exposed Individual Resident

PM_{2.5} - fine particulate matter

Table 2
Operational Health Risk Impacts - Without Wastewater Treatment Plant¹
Point Molate
Richmond, California

Source Type	Cancer Risk	Chronic Hazard Index (HI) ²	Acute Hazard Index (HI) ²	PM _{2.5} Concentration
	(in a million)			(µg/m ³)
Parcel A³				
Roadways ⁴	3.3	--	--	0.064
Ferries ⁵	1.1	0.0014	--	2.9E-04
Emergency Generators ⁶	0.11	3.0E-05	--	1.5E-04
Total	4.5	0.0015	0	0.064
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel B³				
Roadways ⁴	5.6	--	--	0.109
Ferries ⁵	1.0	0.0014	--	2.7E-04
Emergency Generators ⁶	0.16	4.3E-05	--	2.1E-04
Total	6.8	0.0014	0	0.109
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel C³				
Roadways ⁴	2.1	--	--	0.040
Ferries ⁵	0.79	0.0011	--	2.1E-04
Emergency Generators ⁶	0.21	5.6E-05	--	2.8E-04
Total	3.1	0.0011	0	0.040
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel D³				
Roadways ⁴	3.9	--	--	0.072
Ferries ⁵	0.83	0.0011	--	2.2E-04
Emergency Generators ⁶	0.29	7.7E-05	--	3.9E-04
Total	5.0	0.0012	0	0.073
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel E³				
Roadways ⁴	0.44	--	--	0.0080
Ferries ⁵	2.0	0.0027	--	5.4E-04
Emergency Generators ⁶	0.068	1.8E-05	--	9.1E-05
Total	2.5	0.0027	0	0.0086
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel F³				
Roadways ⁴	7.3	--	--	0.14
Ferries ⁵	1.0	0.0014	--	2.8E-04
Emergency Generators ⁶	0.57	1.5E-04	--	7.6E-04
Total	8.9	0.0016	0	0.14
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel G³				
Roadways ⁴	4.8	--	--	0.093
Ferries ⁵	1.2	0.0016	--	3.2E-04
Emergency Generators ⁶	0.51	1.4E-04	--	6.9E-04
Total	6.5	0.0017	0	0.094
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No

Table 2
Operational Health Risk Impacts - Without Wastewater Treatment Plant¹
Point Molate
Richmond, California

Source Type	Cancer Risk	Chronic Hazard Index (HI) ²	Acute Hazard Index (HI) ²	PM _{2.5} Concentration
	(in a million)			(µg/m ³)
Parcel H³				
Roadways ⁴	7.3	--	--	0.14
Ferries ^{5,7}	1.1	3.1E-04	--	1.5E-03
Emergency Generators ^{6,7}	0.71	1.9E-04	--	9.5E-04
Total	9.2	0.0005	0	0.14
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Offsite³				
Roadways ⁴	1.4	--	--	0.027
Ferries ⁵	0.91	0.0012	--	2.5E-04
Emergency Generators ⁶	0.21	5.8E-05	--	2.9E-04
Total	2.6	0.0013	0	0.028
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No

Notes:

- The Project scenario assuming no on-site wastewater treatment includes five generators in the Winehaven Historic District and three additional emergency generators along the sewage pipeline connecting to the municipal wastewater treatment plant. Impacts from all eight generators are included in this scenario.
- The BAAQMD's screening tools do not estimate chronic or acute hazards since the screening levels were found to be extremely low, and thus there are no chronic or acute hazard values associated with roadways.
- The Project impacts are assessed by parcel of onsite receptors and the most-impacted offsite receptors. The risk source types have different MEIRs across the Project site, so analyzing by parcel gives a more accurate assessment of the risks for the Project areas.
- Details of traffic-related impacts are presented for each project parcel in Table 1.
- Risks from project ferry operations were modeled conservatively assuming "large-sized" ferries (350-passenger, 8,000 horsepower per the 2003 WETA Program EIR) and Tier 2 emission factors for ferry engines. Since the time of this analysis, ferry operational assumptions have been refined to specify "small-sized" ferries (149-passenger, 2,900 horsepower) and Tier 4 emission factors for ferry engines. Thus, risks reported here are overly conservative, and actual risks from project ferry operations are expected to be much lower.
- Risks from the operation of five emergency generators supporting commercial buildings in the Winehaven Historic District were modeled. Building downwash was included in the air dispersion modeling for buildings nearby modeled sources. Of the nearby buildings, those which will potentially include residential units above ground level were identified, and elevated receptors were modeled within these buildings up to each projected building height. Risks are reported for the maximum-risk receptor found in each parcel or off-site area, with the exception of Parcel H.
- Impacts within Parcel H are reported for the proposed Parcel building with maximum traffic-related risks. Impacts from modeled ferry operations and emergency generator operations are presented for the maximum-risk receptor at or near to the proposed building.

Abbreviations:

µg - microgram	m - meter
AADT - Annual Average Daily Traffic	m ³ - cubic meter
BAAQMD - Bay Area Air Quality Management District	MEIR - Maximally Exposed Individual Resident
HI - Hazard Index	PM _{2.5} - fine particulate matter
OEHHA - Office of Environmental Health Hazard Assessment	WETA - Water Emergency Transportation Authority

Sources:

California Air Toxics Emission Factor Database. Online at: https://www.arb.ca.gov/app/emsinv/catef_form.html

**Table 3
Operational Health Risk Impacts - With Wastewater Treatment Plant¹
Point Molate
Richmond, California**

Source Type	Cancer Risk	Chronic Hazard Index	Acute Hazard Index (HI) ²	PM _{2.5} Concentration
	(in a million)	(HI) ²		(µg/m ³)
Parcel A³				
Roadways ⁴	3.3	--	--	0.064
Ferries ⁵	1.1	0.0014	--	2.9E-04
WWTP ^{6,7}	1.1	0.0039	0.028	8.1E-04
Emergency Generators ⁷	0.083	2.2E-05	--	1.1E-04
Total	5.6	0.0053	0.028	0.065
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel B³				
Roadways ⁴	5.6	--	--	0.109
Ferries ⁵	1.0	0.0014	--	2.7E-04
WWTP ^{6,7}	0.089	2.8E-04	0.0081	8.9E-05
Emergency Generators ⁷	0.15	4.0E-05	--	2.0E-04
Total	6.9	0.0017	0.0081	0.110
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel C³				
Roadways ⁴	2.1	--	--	0.040
Ferries ⁵	0.79	0.0011	--	2.1E-04
WWTP ^{6,7}	0.019	3.0E-05	0.0010	2.1E-05
Emergency Generators ⁷	0.20	5.4E-05	--	2.7E-04
Total	3.1	0.0011	0.0010	0.041
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel D³				
Roadways ⁴	3.9	--	--	0.072
Ferries ⁵	0.83	0.0011	--	2.2E-04
WWTP ^{6,7}	0.042	2.1E-05	0.0014	5.4E-05
Emergency Generators ⁷	0.28	7.4E-05	--	3.7E-04
Total	5.1	0.0012	0.0014	0.073
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel E³				
Roadways ⁴	0.44	--	--	0.0080
Ferries ⁵	2.0	0.0027	--	5.4E-04
WWTP ^{6,7}	0.017	3.7E-05	0.0037	1.5E-05
Emergency Generators ⁷	0.064	1.7E-05	--	8.6E-05
Total	2.5	0.0028	0.0037	0.0086
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel F³				
Roadways ⁴	7.3	--	--	0.14
Ferries ⁵	1.0	0.0014	--	2.8E-04
WWTP ^{6,7}	0.025	5.7E-05	0.0025	2.7E-05
Emergency Generators ⁷	0.56	1.5E-04	--	7.5E-04
Total	8.9	0.0016	0.0025	0.14
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No

Table 3
Operational Health Risk Impacts - With Wastewater Treatment Plant¹
Point Molate
Richmond, California

Source Type	Cancer Risk	Chronic Hazard Index	Acute Hazard Index (HI) ²	PM _{2.5} Concentration
	(in a million)	(HI) ²		(µg/m ³)
Parcel G³				
Roadways ⁴	4.8	--	--	0.093
Ferries ⁵	1.2	0.0016	--	3.2E-04
WWTP ^{6,7}	0.023	4.0E-05	0.0020	2.7E-05
Emergency Generators ⁷	0.50	1.4E-04	--	6.8E-04
Total	6.5	0.0018	0.0020	0.094
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Parcel H³				
Roadways ⁴	7.3	--	--	0.14
Ferries ^{5,8}	1.1	3.1E-04	--	1.5E-03
WWTP ^{6,7,8}	0.025	4.8E-05	0.0022	2.3E-05
Emergency Generators ^{7,8}	0.70	1.9E-04	--	9.4E-04
Total	9.2	0.0005	0.0022	0.14
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No
Offsite³				
Roadways ⁴	1.4	--	--	0.027
Ferries ⁵	0.91	0.0012	--	2.5E-04
WWTP ^{6,7}	0.016	4.0E-05	0.0027	1.4E-05
Emergency Generators ⁷	--	--	--	--
Total	2.4	0.0013	0.0027	0.027
BAAQMD Significance Threshold	10.0	1.0	1.0	0.30
Exceed?	No	No	No	No

Notes:

- The Project scenario assuming on-site wastewater treatment includes five generators in the Winehaven Historic District. Under this scenario, two additional emergency generators would be needed at on-site lift stations along the sewage pipeline. However, the impact of these two lift generators will be modeled in the WWTP health risk assessment, and are therefore not included in the emergency generator analysis.
- The BAAQMD's screening tools do not estimate chronic or acute hazards since the screening levels were found to be extremely low, and thus there are no chronic or acute hazard values associated with roadways.
- The Project impacts are assessed by parcel of onsite receptors and the most-impacted offsite receptors. The risk source types have different MEIRs across the Project site, so analyzing by parcel gives a more accurate assessment of the risks for the Project areas.
- Details of traffic-related impacts are presented for each project parcel in Table 1.
- Risks from project ferry operations were modeled conservatively assuming "large-sized" ferries (350-passenger, 8,000 horsepower per the 2003 WETA Program EIR) and Tier 2 emission factors for ferry engines. Since the time of this analysis, ferry operational assumptions have been refined to specify "small-sized" ferries (149-passenger, 2,900 horsepower) and Tier 4 emission factors for ferry engines. Thus, risks reported here are overly conservative, and actual risks from project ferry operations are expected to be much lower.
- Wastewater treatment plant risks evaluate potential toxic air contaminants from the processing of municipal wastewater, in addition to supporting emergency generator operations.
- Risks from the operation of five emergency generators supporting commercial buildings in the Winehaven Historic District were modeled. Building downwash was included in the air dispersion modeling for buildings nearby modeled sources. Of the nearby buildings, those which will potentially include residential units above ground level were identified, and elevated receptors were modeled within these buildings up to each projected building height. Risks are reported for the maximum-risk receptor found in each parcel or off-site area, with the exception of Parcel H.
- Impacts within Parcel H are reported for the proposed Parcel building with maximum traffic-related risks. Impacts from modeled ferry operations, WWTP operations, and emergency generator operations are presented for the maximum-risk receptor at or near to the proposed building.

Abbreviations:

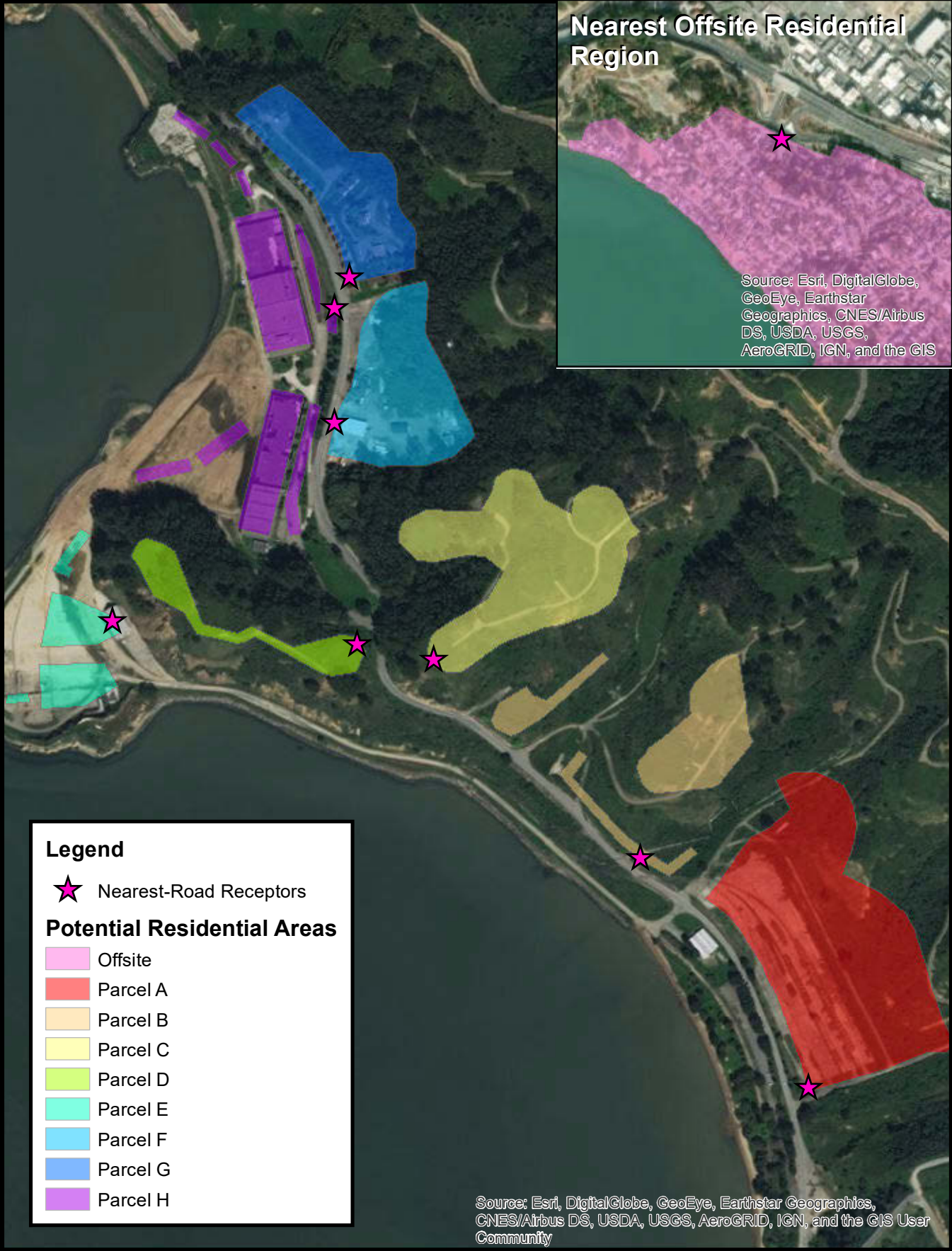
µg - microgram	m - meter
AADT - Annual Average Daily Traffic	m ³ - cubic meter
BAAQMD - Bay Area Air Quality Management District	MEIR - Maximally Exposed Individual Resident
HI - Hazard Index	PM _{2.5} - fine particulate matter
OEHHA - Office of Environmental Health Hazard Assessment	WETA - Water Emergency Transportation Authority

Sources:

California Air Toxics Emission Factor Database. Online at: https://www.arb.ca.gov/app/emsinv/catef_form.html

FIGURES

Nearest Offsite Residential Region



Nearest Sensitive Receptors to Roadways

Point Molate
Richmond, California

FIGURE 1

DRAFTED BY: EGR

DATE: 4/9/2020

PROJECT: 1690014031

CUMULATIVE HRA

Table 1
Summary of Cumulative Health Risk Impacts to the Construction MEISR¹
Point Molate
Richmond, CA

Construction Onsite MEISR UTM Coordinates (Zone 10N):
551267 E, 4200564 N

Emission Source		Cancer Risk Impact (in one million)	Chronic Non-Cancer Hazard Index	Acute Non-Cancer Hazard Index	Annual PM _{2.5} Concentration (ug/m ³)
Project Construction ²		2.3	--	--	0.010
Subtotal, Project Construction Impacts		2.3	0	0	0.010
Project Operational Traffic ³		4.9	--	--	0.10
Project Wastewater Treatment Plant Operations ⁴		0.024	4.7E-05	0.0022	2.3E-05
Project Emergency Generator Testing & Maintenance ⁵		0.65	1.8E-04	--	8.8E-04
Project Ferry Operations ⁶		1.0	2.7E-04	--	0.0013
Subtotal, Project Operational Impacts		6.6	4.9E-04	0.0022	0.10
Existing Stationary Sources greater than 1000 ft from Construction MEISR ⁷					
Facility ID	Facility Name				
10	Chevron Products Company	19.22	0.57	--	N/A ⁸
--	Chevron Marine Terminal ⁹	46.69	0.030	--	0.13
7053	Dutra Materials/San Rafael Rock Quarry Inc	6.9E-05	1.0E-06	--	1.7E-04
100034	Dutra Materials	4E-05	2E-07	--	0
14181	State of California Department of Trans	6.0E-06	4.2E-09	--	0
109463	Dept of Trans - State of CA	5.3E-07	2.6E-09	--	0
--	I-580 Toll Plaza ¹⁰	1.7E-04			1.8E-08
Subtotal, Background Stationary Sources		66	0.60	0	0.13
Existing Rail and Roadway Sources ¹¹					
Railroad		0.93	--	--	0.0013
Major Streets		0.09	--	--	0.003
Highways		0.99	--	--	0.02
Subtotal, Background Mobile Sources		2.01	0	0	0.02
Total Cumulative Impact		77	0.60	0.0022	0.25
BAAQMD Significance Threshold		100	10	10	0.8
Exceed?		No	No	No	No

Notes:

- Health impacts for Project Operational Traffic, Existing Stationary Sources and Existing Rail and Roadway sources are estimated using Screening Tools from the Bay Area Air Quality Management District (BAAQMD). Health impacts from Project Construction, WWTP Operations, Emergency Generator testing and maintenance, and Project ferry operations are derived from Project-specific modeling. Impacts presented here are at the onsite sensitive receptor with maximum risk due to Project construction, unless otherwise indicated.
- Construction impacts represent results from Project specific modeling. Results here are shown for the Construction MEIR, which occurs in Parcel F.
- Risks from project operational traffic are based on total expected traffic volume increase determined from the Project's Transportation Impact Analysis (10,980 AADT), and are conservatively assumed to all pass by the Construction MEISR on Stenmark Drive. Risks from traffic are calculated using BAAQMD's Roadway Screening Calculator set to Contra Costa County parameters, using the distance from Stenmark Drive to the nearest residential building to the Construction MEISR. Cancer risk was multiplied by a factor of 1.3744 to account for the revised 2015 OEHHA Guidance, at the direction of the BAAQMD.
- WWTP impacts represent results from Project specific modeling. Because the exact Construction MEIR location was not modeled, results are shown here for the maximum-risk modeled receptor within a 50-foot radius of the MEIR. Impacts from WWTP operations are due to TAC emissions from operation wastewater treatment processes, as well as DPM/particulate emissions from emergency generator testing and maintenance at the WWTP facility and at lift stations along the Project wastewater collection pipeline. For further details on WWTP impacts, refer to the WWTP HRA Memo.
- Emergency generator impacts represent results from Project specific modeling. Because the exact Construction MEIR location was not modeled, results are shown here for the maximum-risk modeled receptor within a 50-foot radius of the MEIR. Impacts from generator testing and maintenance are resultant of DPM/particulate emissions at five backup generators within the Winehaven historic district. For further details on emergency generator impacts, refer to the Emergency Generator HRA Memo.

Notes (continued):

6. Risks from project ferry operations were modeled conservatively assuming "large-sized" ferries (350-passenger, 8,000 horsepower per the 2003 WETA Program EIR) and Tier 2 emission factors for ferry engines. Since the time of this analysis, ferry operational assumptions have been refined to specify "small-sized" ferries (149-passenger, 2,900 horsepower) and Tier 4 emission factors for ferry engines. Thus, risks reported here are overly conservative, and actual risks from project ferry operations are expected to be much lower.
7. Facility information was obtained from the BAAQMD Stationary Source Screening tool (with the exception of the Chevron Marine Terminal and the I-580 Toll Plaza), with additional details provided by BAAQMD (received 9/10/2019). No facilities were found to be located within 1,000 feet of the Construction MEISR; however, several large facilities located further than 1,000 feet from the construction MEISR were included here as a conservative measure. Distances from the Chevron Refinery and Dutra Materials were conservatively based on the closest process or tank area. Additional distance adjustment factors were calculated for these distances by extrapolating the distance adjustment factors (using exponential trendline) provided in BAAQMD's Screening Tools.
8. Community PM_{2.5} monitoring data at three stations nearby the Chevron Refinery have been compared to Bay Area PM_{2.5} monitoring data and average concentrations at the community monitors are comparable, or slightly less, than the overall average concentrations from Bay Area stations over the same data period (2014-2017). Thus, the long term average contribution of PM_{2.5} at nearby locations from the Chevron Refinery is likely de minimis.
9. Chevron Marine Terminal risks are estimated based on risk modeling analysis performed as a part of the Chevron Refinery Modernization EIR. Risks reported here represent results at the Project Construction MEIR's nearest modeled receptor from the Chevron Modernization Project risk analysis; cancer risks are scaled by an adjustment factor of 1.3744 to reflect updated OEHHA inhalation factors since the time of the analysis. Note that risks from the Chevron Modernization Project are given for both the 2008 Baseline year as well as the 2016 Modernization EIR Project year (representing facility improvements included as Project Design features and required mitigation measures prior to operation of the Project). Because the Point Molate Project buildout year (2028) occurs well after the expected completion of Chevron Modernization improvements, Project-related risks from the Modernization EIR were used.
10. Impacts from the I-580W Toll Plaza were estimated by scaling cancer risk impacts and PM_{2.5} concentrations modeled in the West Oakland Community Action Plan Study for the I-80W Bay Bridge Toll Plaza by the Annual Average Daily Traffic (AADT) for light duty vehicles and Performance Measurement Systems (PeMS) counts for trucks obtained from the closest monitors near both Toll Plazas. The West Oakland Community Action Plan Study relies on traffic counts for I-80W in 2016, and the traffic counts for the I-580W Richmond bridge were obtained for 2017. Impacts scaled by the traffic counts were further scaled by distance from the I-580W Toll Plaza to the construction MEIR. Further details are provided in supporting tables 5 and 6. Impacts from the I-580W Toll Plaza are assumed to include mobile emissions from vehicles using the CalTrans Maintenance Facility (Facility IDs 14181 and 109463).
11. Cancer risk and PM_{2.5} concentration values were determined based on the maximum impact of a raster cell located on the Construction MEISR. The BAAQMD's screening tools do not estimate chronic or acute hazards since the screening levels were found to be extremely low, and thus there are no chronic hazard values associated with highways, railways, or major streets.

Abbreviations:

AADT - Annual Average Daily Traffic

BAAQMD: Bay Area Air Quality Management District

EIR - Environmental Impact Report

HI - health index

MEISR - Maximally Exposed Individual Sensitive Receptor

OEHHA - California Office of Environmental Health Hazard Assessment

PM_{2.5} - fine particulate matter

ug/m³ - micrograms per cubic meter

UTM- Universal Transverse Mercator coordinate system

WETA - Water Emergency Transportation Authority

WWTP - wastewater treatment plant

References:

BAAQMD Roadway screening Analysis Calculator. Last updated 4/16/19. Available online at http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/screeningcalculator_4_16_15-xlsx.xlsx?la=en

BAAQMD Permitted Stationary Sources 2017 online GIS tool. Accessed September, 2019. Accessible online at <https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html>

BAAQMD Stationary Source Inquiry Form (submitted to BAAQMD for nearby permitted sources). Available online at <http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/stationary-source-inquiry-form-2018-xlsx.xlsx?la=en>

BAAQMD Stationary Source Screening Analysis KML tool. Accessed September, 2019. Available online at http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/contra_costa_2012.kml?la=en

BAAQMD raster tools received by Ramboll through personal communication with Areana Flores from BAAQMD on April 20, 2018. Available online at: <https://www.dropbox.com/sh/r0d12b66m4scwlc/AADpA16Bsv1-9A5zIH3L9EAza?dl=0>
City of Richmond. 2014. Chevron Modernization Project Final Environmental Impact Report. June.

Table 2
Summary of Cumulative Health Risk Impacts to the Operational Onsite MEISR¹
Point Molate
Richmond, CA

Operational Onsite MEISR UTM Coordinates (Zone 10N)²:
551247 E, 4200584 N

Emission Source		Cancer Risk Impact (in one million)	Chronic Non-Cancer Hazard Index	Acute Non-Cancer Hazard Index	Annual PM _{2.5} Concentration (ug/m ³)
Project Construction ³		0	0	0	0
Subtotal, Project Construction Impacts		0	0	0	0
Project Operational Traffic ⁴		7.3	--	--	0.14
Project Wastewater Treatment Plant Operations ⁵		0.075	5.8E-05	0.0040	9.1E-05
Project Emergency Generator Testing & Maintenance ⁶		0.70	1.9E-04	--	9.4E-04
Project Ferry Operations ⁷		1.1	3.1E-04	--	0.0015
Subtotal, Project Operational Impacts		9.2	5.5E-04	0.0040	0.14
Existing Stationary Sources greater than 1000 ft from Operational Onsite MEISR ⁸					
Facility ID	Facility Name				
10	Chevron Products Company	17	0.50	--	N/A ⁹
--	Chevron Marine Terminal ¹⁰	47	0.030	--	0.13
7053	Dutra Materials/San Rafael Rock Quarry Inc	6.9E-05	1.0E-06	--	1.7E-04
100034	Dutra Materials	4.3E-05	2.2E-07	--	0
14181	State of California Department of Trans	6.0E-06	4.2E-09	--	0
109463	Dept of Trans - State of CA	5.3E-07	2.6E-09	--	0
--	I-580 Toll Plaza ¹¹	1.7E-04	--	--	1.8E-08
Subtotal, Background Stationary Sources		63	0.53	0	0.13
Existing Rail and Roadway Sources ¹²					
Railroad		0.93	--	--	0.0013
Major Streets		0.090	--	--	0.0027
Highways		1.0	--	--	0.016
Subtotal, Background Mobile Sources		2.0	0	0	0.020
Total Cumulative Impact		75	0.53	0.0040	0.29
BAAQMD Significance Threshold		100	10	10	0.8
Exceed?		No	No	No	No

Notes:

- Health impacts for Project Operational Traffic, Existing Stationary Sources and Existing Rail and Roadway sources are estimated using Screening Tools from the Bay Area Air Quality Management District (BAAQMD). Health impacts from WWTP Operations, Emergency Generator testing and maintenance, and Project ferry operations are derived from Project-specific modeling. Impacts presented here are at the onsite sensitive receptor with maximum risk due to Project operations, unless otherwise indicated.
- The location of the operational on-site MEIR was determined by identifying the maximum-risk Project planning parcel resulting from Project operations (Parcel H). Within this parcel, the exact location was determined by identifying the maximum risk driver (traffic) and subsequently, the maximum risk building within the parcel. Maximum impacts from receptors within or nearest to this building are presented here. For further details on Project operational risks, refer to the Operational HRA Memo.
- There are no construction impacts at the Operational Onsite MEIR. This residential receptor is located within Parcel H, which is the last parcel to be constructed; therefore, no residents will occupy any buildings in Parcel H during the construction phase.
- Risks from project operational traffic are based on total expected traffic volume increase determined from the Project's Transportation Impact Analysis (10,980 ADT), and are conservatively assumed to all pass by the Operational onsite MEISR on Stenmark Drive. Risks from traffic are calculated using BAAQMD's Roadway Screening Calculator set to Contra Costa County parameters. Cancer risk impact was multiplied by a factor of 1.3744 to account for the revised 2015 OEHHA Guidance, at the direction of the BAAQMD.
- WWTP impacts represent results from Project specific modeling at the operational on-site MEIR. Impacts from WWTP operations are due to TAC emissions from wastewater treatment processes, as well as DPM/particulate emissions from emergency generators at lift stations along the Project wastewater collection pipeline. For further details on WWTP impacts, refer to the WWTP HRA Memo.
- Emergency generator impacts represent results from Project specific modeling at the operational on-site MEIR. Impacts from generator testing and maintenance are resultant of DPM/particulate emissions from five backup generators within the Winehaven historic district. For further details on emergency generator impacts, refer to the Emergency Generator HRA Memo.

Notes (continued):

7. Risks from project ferry operations were modeled conservatively assuming "large-sized" ferries (350-passenger, 8,000 horsepower per the 2003 WETA Program EIR) and Tier 2 emission factors for ferry engines. Since the time of this analysis, ferry operational assumptions have been refined to specify "small-sized" ferries (149-passenger, 2,900 horsepower) and Tier 4 emission factors for ferry engines. Thus, risks reported here are overly conservative, and actual risks from project ferry operations are expected to be much lower.
8. Facility information was obtained from the BAAQMD Stationary Source Screening tool (with the exception of the Chevron Marine Terminal and the I-580 Toll Plaza), with additional details provided by BAAQMD (received 9/10/2019). No facilities were found to be located within 1,000 feet of the operational onsite MEISR; however, several large facilities located further than 1,000 feet from the operational onsite MEISR were included here as a conservative measure. Distances from the Chevron Refinery and Dutra Materials were conservatively based on the closest process or tank area. Additional distance adjustment factors were calculated for these distances by extrapolating the distance adjustment factors (using exponential trendline) provided in BAAQMD's Screening Tools.
9. Community PM_{2.5} monitoring data at three stations nearby the Chevron Refinery have been compared to Bay Area PM_{2.5} monitoring data and average concentrations at the community monitors are comparable, or slightly less, than the overall average concentrations from Bay Area stations over the same data period (2014-2017). Thus, the long term average contribution of PM_{2.5} at nearby locations from the Chevron Refinery is likely de minimis.
10. Chevron Marine Terminal risks are estimated based on risk modeling analysis performed as a part of the Chevron Refinery Modernization EIR. Risks reported here represent results at the Project Operational Onsite MEIR's nearest modeled receptor from the Chevron Modernization Project risk analysis; cancer risks are scaled by an adjustment factor of 1.3744 to reflect updated OEHHA inhalation factors since the time of the analysis. Note that risks from the Chevron Modernization Project are given for both the 2008 Baseline year as well as the 2016 Modernization EIR Project year (representing facility improvements included as Project Design features and required mitigation measures prior to operation of the Project). Because the Point Molate Project buildout year (2028) occurs well after the expected completion of Chevron Modernization improvements, Project-related risks from the Modernization EIR were used.
11. Impacts from the I-580W Toll Plaza were estimated by scaling cancer risk impacts and PM_{2.5} concentrations modeled in the West Oakland Community Action Plan Study for the I-80W Bay Bridge Toll Plaza by the Annual Average Daily Traffic (AADT) for light duty vehicles and Performance Measurement Systems (PeMS) counts for trucks obtained from the closest monitors near both Toll Plazas. The West Oakland Community Action Plan Study relies on traffic counts for I-80W in 2016, and the traffic counts for the I-580W Richmond bridge were obtained for 2017. Impacts scaled by the traffic counts were further scaled by distance from the I-580W Toll Plaza to the Operational Onsite MEIR. Further details are provided in supporting tables 5 and 6. Impacts from the I-580W Toll Plaza are assumed to include mobile emissions from vehicles using the CalTrans Maintenance Facility (Facility IDs 14181 and 109463).
12. Cancer risk and PM_{2.5} concentration values were determined based on the maximum impact of a raster cell located on the Construction MEISR (551267m E, 4200564m N). Because this receptor is within 100 feet of the Operational Onsite MEISR, and is located closer to all highways, railways, major streets, these risks are conservatively assumed to be equal. The BAAQMD's screening tools do not estimate chronic or acute hazards since the screening levels were found to be extremely low, and thus there are no chronic hazard values associated with highways, railways, or major streets.

Abbreviations:

AADT - Annual Average Daily Traffic	
BAAQMD: Bay Area Air Quality Management District	PM _{2.5} - fine particulate matter
EIR - Environmental Impact Report	ug/m ³ : micrograms per cubic meter
HI - health index	UTM: Universal Transverse Mercator coordinate system
MEISR - Maximally Exposed Individual Sensitive Receptor	WETA - Water Emergency Transportation Authority
OEHHA - California Office of Environmental Health Hazard Assessment	WWTP - wastewater treatment plant

References:

- BAAQMD Roadway screening Analysis Calculator. Last updated 4/16/19. Available online at http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/screeningcalculator_4_16_15-xlsx.xlsx?la=en
- BAAQMD Permitted Stationary Sources 2017 online GIS tool. Accessed September, 2019. Accessible online at <https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html>
- BAAQMD Stationary Source Inquiry Form (submitted to BAAQMD for nearby permitted sources). Available online at <http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/stationary-source-inquiry-form-2018-xlsx.xlsx?la=en>
- BAAQMD Stationary Source Screening Analysis KML tool. Accessed September, 2019. Available online at http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/contra_costa_2012.kml?la=en
- BAAQMD raster tools received by Ramboll through personal communication with Areana Flores from BAAQMD on April 20, 2018. Available online at: <https://www.dropbox.com/sh/r0d12b66m4scwlc/AADpA16Bsv1-9A5zIH3L9EAza?dl=0>
- City of Richmond. 2014. Chevron Modernization Project Final Environmental Impact Report. June.

**Table 3
Summary of Cumulative Health Risk Impacts to the Operational Offsite MEISR¹
Point Molate
Richmond, CA**

**Off-site MEISR UTM Coordinates (Zone 10N):
553703 E, 4198160 N**

Emission Source		Cancer Risk Impact (in one million)	Chronic Non- Cancer Hazard Index	Acute Non- Cancer Hazard Index	Annual PM _{2.5} Concentration (ug/m ³)
Project Construction ²		0.54	3.7E-04	--	0.0019
Subtotal, Project Construction Impacts		0.54	3.7E-04	0	0.0019
Project Operational Traffic ³		1.4	--	--	0.027
Project Wastewater Treatment Plant Operations ⁴		0.0086	1.6E-05	0.0010	7.8E-06
Project Emergency Generator Testing/Maintenance ⁵		0.017	4.5E-06	--	2.3E-05
Project Ferry Operations ⁶		0.91	2.5E-04		0.0012
Subtotal, Project Operational Impacts		2.4	2.7E-04	0.0010	0.028
Existing Stationary Sources within 1000 ft of Off-site MEISR ⁷					
Facility ID	Facility Name				
72	Chevron Inc (Americas OE/HES)	8.5	0.042	--	0
--	Chevron Marine Terminal ⁸	21	0.013	--	0.049
423	Chevron Richmond Technology Center	10	0.015	--	0.011
Existing Stationary Sources greater than 1000 ft from Off-site MEISR ⁹					
Facility ID	Facility Name				
23	Chemtrade West US LLC	0.028	1.3	--	0.31
10	Chevron Products Company	17	0.50	--	N/A ¹⁰
109463	Dept of Trans - State of CA	2.1E-04	1.1E-06	--	0
14181	State of California Department of Trans	0.0024	1.7E-06	--	0
--	I-580 Toll Plaza ¹¹	6.3E-02	--	--	6.7E-06
Subtotal, Background Stationary Sources		57	1.8	0	0.37
Existing Rail and Roadway Sources ¹²					
Railroad		1.1	--	--	0.0015
Major Streets		0.36	--	--	0.010
Highways		20	--	--	0.30
Subtotal, Background Mobile Sources		21	0	0	0.31
Total Cumulative Impact		81	1.8	0.0010	0.71
BAAQMD Significance Threshold		100	10	10	0.8
Exceed?		No	No	No	No

Notes:

- Health impacts for Project Operational Traffic, Existing Stationary Sources and Existing Rail and Roadway sources are estimated using Screening Tools from the Bay Area Air Quality Management District (BAAQMD). Health impacts from Project Construction, WWTP Operations, Emergency Generator testing and maintenance, and Project ferry operations are derived from Project-specific modeling. Impacts presented here are at the offsite sensitive receptor with maximum risk due to Project operation, unless otherwise indicated.
- Construction impacts represent results from Project specific modeling. Results here are conservatively shown for the maximum offsite receptor modeled, which is located closer to the Project than the Operational Offsite MEISR.
- Risks from project operational traffic assume 49% of total project traffic (10,980 ADT) to be allocated to Highway 580 (41% for Highway volume and 8% for nearby local traffic), based on the Project's Transportation Impact Analysis. Risks from traffic are calculated using BAAQMD's Roadway Screening Calculator set to Contra Costa County parameters. Cancer risk was multiplied by a factor of 1.3744 to account for the revised 2015 OEHHA Guidance, at the direction of the BAAQMD.
- WWTP impacts represent results from Project specific modeling at the operational off-site MEIR. Impacts from WWTP operations are due to TAC emissions from operational wastewater treatment processes, as well as DPM/particulate emissions from emergency generators at the WWTP facility and at lift stations along the Project wastewater collection pipeline. For further details on WWTP impacts, refer to the WWTP HRA Memo.
- Emergency generator impacts represent results from Project specific modeling at the operational off-site MEIR. Impacts from generator testing and maintenance are resultant of DPM/particulate emissions from five backup generators within the Winehaven historic district. For further details on emergency generator impacts, refer to the Emergency Generator HRA Memo.

Notes (continued):

6. Risks from project ferry operations were modeled conservatively assuming "large-sized" ferries (350-passenger, 8,000 horsepower per the 2003 WETA Program EIR) and Tier 2 emission factors for ferry engines. Since the time of this analysis, ferry operational assumptions have been refined to specify "small-sized" ferries (149-passenger, 2,900 horsepower) and Tier 4 emission factors for ferry engines. Thus, risks reported here are overly conservative, and actual risks from project ferry operations are expected to be much lower.
7. For the cumulative analysis, Ramboll included all facilities within 1,000 feet of the proposed Project as per the BAAQMD Stationary Source Screening Analysis Tool. Facility information was obtained from the BAAQMD Stationary Source Screening tool with additional details provided by BAAQMD (received 9/10/2019).
8. Chevron Marine Terminal risks are estimated based on risk modeling analysis performed as a part of the Chevron Refinery Modernization EIR. Risks reported here represent results at the Project Operational Offsite MEIR's nearest modeled receptor from the Chevron Modernization Project risk analysis; cancer risks are scaled by an adjustment factor of 1.3744 to reflect updated OEHHA inhalation factors since the time of the analysis.
9. Chemtrade West US LLC, Chevron Products, and CalTrans Maintenance facilities are greater than 1,000 feet from the offsite sensitive receptor (estimated to be at minimum 1,850, 2,800 and 7,000 ft, respectively), but were included in the cumulative analysis to be conservative. Distance from Chemtrade to the MEISR (1,850 ft) represents the distance to associate company GenChem; while the Chemtrade facility is permitted at an address further from the MEISR, the shorter distance of the two is used conservatively. Distance from Chevron was conservatively based on the closest process or tank area. Additional distance adjustment factors were calculated for these distances by extrapolating the distance adjustment factors (using exponential trendline) provided in BAAQMD's Screening Tools.
10. Community PM_{2.5} monitoring data at three stations nearby the Chevron Refinery have been compared to Bay Area PM_{2.5} monitoring data and average concentrations at the community monitors are comparable, or slightly less, than the overall average concentrations from Bay Area stations over the same data period (2014-2017). Thus, the long term average contribution of PM_{2.5} at nearby locations from the Chevron Refinery is likely de minimis.
11. Impacts from the I-580W Toll Plaza were estimated by scaling cancer risk impacts and PM_{2.5} concentrations modeled in the West Oakland Community Action Plan Study for the I-80W Bay Bridge Toll Plaza by the Annual Average Daily Traffic (AADT) for light duty vehicles and Performance Measurement Systems (PeMS) counts for trucks obtained from the closest monitors near both Toll Plazas. The West Oakland Community Action Plan Study relies on traffic counts for I-80W in 2016, and the traffic counts for the I-580W Richmond bridge were obtained for 2017. Impacts scaled by the traffic counts were further scaled by distance from the I-580W Toll Plaza to the Operational Offsite MEIR. Further details are provided in supporting tables 5 and 6. Impacts from the I-580W Toll Plaza are assumed to include mobile emissions from vehicles using the CalTrans Maintenance Facility (Facility IDs 14181 and 109463).
12. Cancer risk and PM_{2.5} concentration values were determined based on the maximum impact of a raster cell located on the offsite sensitive receptor. The BAAQMD's screening tools do not estimate chronic or acute hazards since the screening levels were found to be extremely low, and thus there are no chronic hazard values associated with highways, railways, or major streets.

Abbreviations:

AADT - Annual Average Daily Traffic	PM _{2.5} - fine particulate matter
BAAQMD: Bay Area Air Quality Management District	ug/m ³ - micrograms per cubic meter
EIR - Environmental Impact Report	UTM- Universal Transverse Mercator coordinate system
HI - health index	WETA - Water Emergency Transportation Authority
MEISR - Maximally Exposed Individual Sensitive Receptor	WWTP - wastewater treatment plant
OEHHA - California Office of Environmental Health Hazard Assessment	




References:

- BAAQMD Roadway screening Analysis Calculator. Last updated 4/16/19. Available online at http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/screeningcalculator_4_16_15-xlsx.xlsx?la=en
- BAAQMD Permitted Stationary Sources 2017 online GIS tool. Accessed September, 2019. Accessible online at <https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html>
- BAAQMD Stationary Source Inquiry Form (submitted to BAAQMD for nearby permitted sources). Available online at <http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/stationary-source-inquiry-form-2018-xlsx.xlsx?la=en>
- BAAQMD Stationary Source Screening Analysis KML tool. Accessed September, 2019. Available online at http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/contra_costa_2012.kml?la=en
- BAAQMD raster tools received by Ramboll through personal communication with Areana Flores from BAAQMD on April 20, 2018. Available online at: <https://www.dropbox.com/sh/r0d12b66m4scwlc/AADpA16Bsv1-9A5zIH3L9EAza?dl=0>
- City of Richmond. 2014. Chevron Modernization Project Final Environmental Impact Report. June.



Cumulative HRA Supporting Table 1
Stationary Source Distances to On-site Construction MEIR
Point Molate
Richmond, California

Source	Unadjusted Risk	Distance	Risk Multiplier	Distance (with Figure)
Dutra Materials/San Rafael Rock Quarry Inc	Cancer Risk: 1.071 in a million Chronic Hazard Index: 0.01573 PM2.5 Conc: 2.567 ug/m3	4800 ft	6.449E-05	
Dutra Materials	Cancer Risk: 0.6729 in a million Chronic Hazard Index: 0.003344 PM2.5 Conc: 0 ug/m3	4800 ft	6.449E-05	
Chevron Refinery ("Chevron Product Company")	Cancer Risk: 4,746 in a million Chronic Hazard Index: 141.4 PM2.5 Conc: 4,682 ug/m3	2730 ft	4.050E-03	
CalTrans Maintenance Facility ("State of California Department of Trans")	Cancer Risk: 7.556 in a million Chronic Hazard Index: 0.005255 PM2.5 Conc: 0 ug/m3	7000 ft	7.918E-07	
CalTrans Maintenance Facility ("State of California Department of Trans - CA")	Cancer Risk: 0.6730 in a million Chronic Hazard Index: 0.003344 PM2.5 Conc: 0 ug/m4	7000 ft	7.918E-07	See above image. Distance to Construction MEIR is approximately equal to "State of California Department of Trans" shown above.



**Cumulative HRA Supporting Table 2
Stationary Source Distances to Off-site Operational MEIR
Point Molate
Richmond, California**

Source	Unadjusted Risk	Distance	Risk Multiplier	Distance (with Figure)
Chevron Inc (Americas OE/HES)	Cancer Risk: 24.10 in a million Chronic Hazard Index: 0.1191 PM2.5 Conc: 0 ug/m ³	492 ft	0.3559	
Chevron Richmond Technology Center	Cancer Risk: 40.24 in a million Chronic Hazard Index: 0.0600 PM2.5 Conc: 0.0438 ug/m ³	656 ft	0.2564	
Chemtrade West US LLC	Cancer Risk: 1.202 in a million Chronic Hazard Index: 54.06 PM2.5 Conc: 13.29 ug/m ³	1850 ft	0.02354	

**Cumulative HRA Supporting Table 2
Stationary Source Distances to Off-site Operational MEIR
Point Molate
Richmond, California**

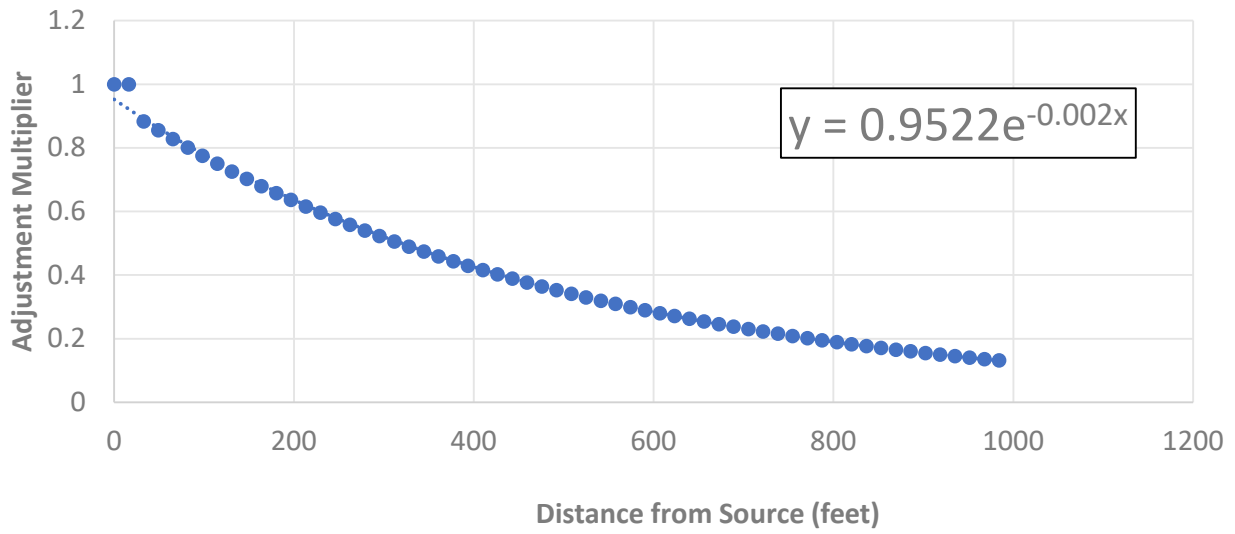
Chevron Refinery ("Chevron Product Company")	Cancer Risk: 4,746 in a million Chronic Hazard Index: 141.4 PM2.5 Conc: 4,682 ug/m3	2800 ft	3.521E-03	
CalTrans Maintenance Facility ("State of California Department of Trans")	Cancer Risk: 7.556 in a million Chronic Hazard Index: 0.005255 PM2.5 Conc: 0 ug/m3	4000 ft	3.194E-04	
CalTrans Maintenance Facility ("Dept of Trans - CA")	Cancer Risk: 0.6730 in a million Chronic Hazard Index: 0.003344 PM2.5 Conc: 0 ug/m4	4000 ft	3.194E-04	See above image. Distance to Construction MEIR is approximately equal to "State of California Department of Trans" shown above.

**Cumulative HRA Supporting Table 3
Stationary Source Distances to On-site Operational MEIR
Point Molate
Richmond, California**

Source	Unadjusted Risk	Distance	Risk Multiplier	Distance (with Figure)
Dutra Materials/San Rafael Rock Quarry Inc	Cancer Risk: 1.071 in a million Chronic Hazard Index: 0.01573 PM2.5 Conc: 2.567 ug/m3	4800 ft	6.449E-05	
Dutra Materials	Cancer Risk: 0.6729 in a million Chronic Hazard Index: 0.003344 PM2.5 Conc: 0 ug/m3	4800 ft	6.449E-05	
Chevron Refinery ("Chevron Product Company")	Cancer Risk: 4,746 in a million Chronic Hazard Index: 141.4 PM2.5 Conc: 4,682 ug/m3	2800 ft	3.521E-03	
CalTrans Maintenance Facility ("State of California Department of Trans")	Cancer Risk: 7.556 in a million Chronic Hazard Index: 0.005255 PM2.5 Conc: 0 ug/m3	7000 ft	7.918E-07	
CalTrans Maintenance Facility ("Dept of Trans - CA")	Cancer Risk: 0.6730 in a million Chronic Hazard Index: 0.003344 PM2.5 Conc: 0 ug/m4	7000 ft	7.918E-07	See above image. Distance to Construction MEIR is approximately equal to "State of California Department of Trans" shown above.

Cumulative HRA Supporting Table 4
Stationary Source Risk Adjustment Factor by Distance to MEIR
Point Molate
Richmond, California

Stationary Source Risk Adjustment by Distance



**Cumulative HRA Supporting Table 5a
Impacts at Source Locations for I-80W and I-580W Toll Plazas
Point Molate
Richmond, California**

Source Category	I-80W Toll Plaza (Impacts at Source Location) ¹			I-580W Toll Plaza (Impacts at Source Location) ¹		
	Cancer Risk (per million)	PM _{2.5} Concentration (ug/m ³)	AADT - 2016 ²	Cancer Risk Impacts (per million)	PM _{2.5} Concentration (ug/m ³)	AADT - 2017 ³
Non-Trucks	21.5	0.65	265,000	6.7	0.20	82,000
LHDT (Truck 1)	20.6	0.10	44,781	8.3	0.04	17,955
MHDT/HHDT (Truck 2)	424.1	0.73	103,994	74.5	0.13	18,275
Total	466.2	1.5	413,775	89.4	0.37	118,230

Notes:

1. The West Oakland Community Action Plan Study reports cancer risk impacts and PM_{2.5} concentrations from all highways in Oakland including I-80 (Bay Bridge), I-880 and I-980. Impacts from the I-580 Toll Plaza were estimated by scaling cancer risk impacts and PM_{2.5} concentrations modeled for the I-80 Bay Bridge with the Annual Average Daily Traffic (AADT) count for light duty vehicles, Performance Measurement System (PeMS) counts for trucks, and the distances to sensitive receptors. Since risk breakdown by highway was not provided in the study, cancer risk from highways were entirely attributed to I-80 for this analysis.
2. AADT for Bay Bridge Toll Plaza (I-80W) in 2016 for Non-trucks were obtained from the CalTrans AADT data (Traffic Volume). AADT for Truck 1 and Truck 2 were obtained from PeMS from the monitor located on the Bay Bridge. PeMS reports AADT on a monthly basis and an average AADT was calculated over the 12-month period. The AADT was then split into LHDT, and MHDT/HHDT using the fleet mix for Alameda county in 2016 using EMFAC 2017.
3. Similar to the Bay Bridge Toll Plaza, AADT for Richmond Bridge (I-580W) was obtained from 2017 CalTrans data for vehicular traffic and 2017 PeMS for truck traffic. The AADT for trucks was split into LHDT and MHDT/HHDT using the fleet mix for Contra Costa county in 2017 using EMFAC 2017.

Abbreviations:

AADT - Annual Average Daily Traffic
EMFAC - Emission FACTors Model
HHDT - Heavy Heavy Duty Trucks
LHDT - Light Heavy Duty Trucks

MHDT - Medium Heavy Duty Trucks
PM_{2.5} - Particulate Matter less than 2.5 microns in diameter
PeMS - Performance Measurement System
ug/m³ - micrograms per cubic meter

References:

BAAQMD 2019. Owing Our Air: The West Oakland Community Action Plan. Available online at: <https://www.baaqmd.gov/community-health/community-health-protection-program/west-oakland-community-action-plan>
California Air Resources Board (ARB) 2017. EMFAC2017. Available at: <https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/msei-modeling-tools>

Cumulative HRA Supporting Table 5b
Impacts from I-580W Toll Plaza on Project Sensitive Receptors
Point Molate
Richmond, California

MEIR	UTMx	UTMy	Cancer Risk Distance Scaling Factor¹	Cancer Risk Impacts (per million)	PM_{2.5} Distance Scaling Factor²	PM_{2.5} Concentration (ug/m³)
Construction	551267	4200564	1.8E-06	1.65E-04	4.8E-08	1.78E-08
Operational Onsite	551247	4200584	1.8E-06	1.7E-04	4.8E-08	1.78E-08
Operational Offsite	551803	4199724	7.0E-04	0.06	1.8E-05	6.65E-06

Notes:

1. The cancer risk impacts and PM_{2.5} concentrations for I-580W Toll Plaza (see Table 5a) were scaled by the distance and direction to construction and operational MEIRs from the source, using BAAQMD's Roadway Screening Tool distance adjustment factor. The construction MEIR and operational onsite MEIR are located North of the I-580W Toll Plaza at a distance of approximately 7,000 ft. The operational offsite MEIR is located approximately South of the I-580W Toll Plaza at a distance of approximately 4,000 ft. BAAQMD's Roadway Screening Tool provides scaling factors for receptors located within 10 - 1,000 ft from the source. An exponential trendline was fitted to these points to determine an equation for the trendline. This equation was used to determine the distance adjustment factor for cancer risk impact and PM_{2.5} concentrations for the construction and operational MEIRs and is provided in Cumulative HRA Supporting Table 6.
2. The PM_{2.5} concentrations for I-580W Toll Plaza (see Table 5a) were scaled by the distance to construction and operational MEIRs from the source, using BAAQMD's Roadway Screening Tool distance adjustment factor. The construction MEIR and operational onsite MEIR are located North of the I-580W Toll Plaza at a distance of approximately 7,000 ft. The operational offsite MEIR is located approximately South of the I-580W Toll Plaza at a distance of approximately 4,000 ft. BAAQMD's Roadway Screening Tool provides scaling factors for receptors located within 10 - 1,000 ft from the source. An exponential trendline was fitted to these points to determine an equation for the trendline. This equation was used to determine the distance adjustment factor for PM_{2.5} concentration for the construction and operational MEIRs and is provided in Cumulative HRA Supporting Table 6.

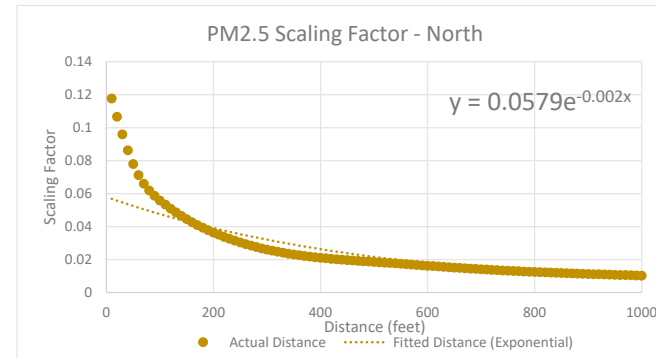
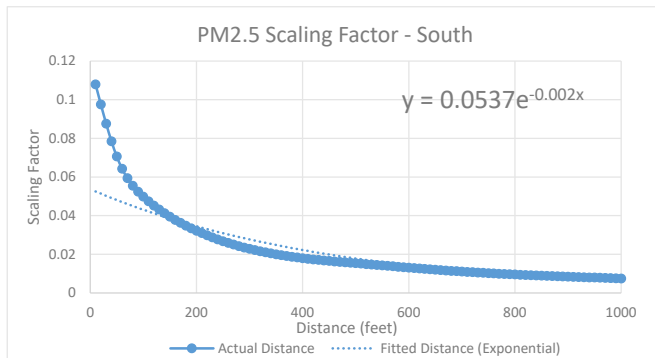
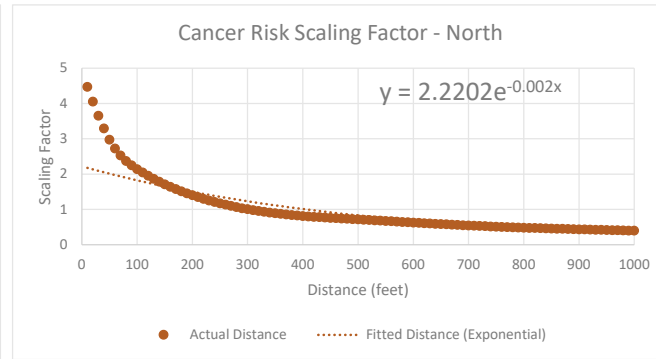
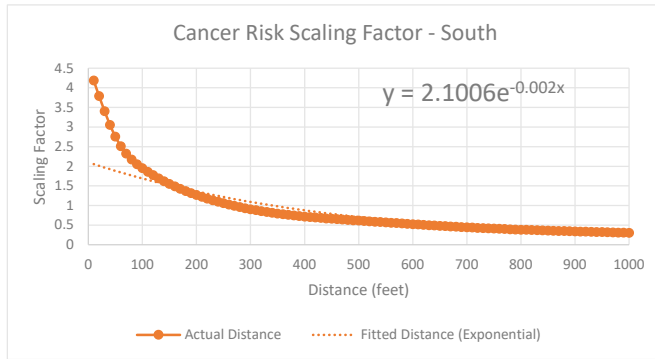
Abbreviations:

MEIR - Maximally Exposed Individual Receptor ug/m³ - micrograms per cubic meter
 PM2.5- Particulate Matter less than 2.5 microns in diameter UTM - Universal Transverse Mercator

References:

BAAQMD 2019. Owning Our Air: The West Oakland Community Action Plan. Available online at: <https://www.baaqmd.gov/community-health/community-health-protection-program/west-oakland-community-action-plan>

Cumulative HRA Supporting Table 6
Roadway Screening Tool Distance Adjustment Factor
Point Molate
Richmond, California



FRIANT RANCH EVALUATION

Prepared for
Analytical Environmental Services

Prepared by
Ramboll US Corporation

Project Number
1690014031

Date
July 2020
(Modeling Analysis Completed in March, 2020)

POINT MOLATE ADDITIONAL INFORMATION REGARDING POTENTIAL HEALTH EFFECTS OF AIR QUALITY IMPACTS RICHMOND, CALIFORNIA

CONTENTS

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Appendix A:	Emissions Inventory, Spatial Allocation, and SMOKE Setup
Appendix B:	PGM Inputs, Outputs, and Assumptions
Appendix C:	BenMAP and Health Effects

1. INTRODUCTION

This report presents an estimate of the potential health effects of the emissions of criteria pollutants that may result from the adoption and implementation of the Point Molate Project (the proposed Project). The proposed Project entails mixed-use development on the former Point Molate Navy Fuel Depot and Winehaven Historic District, located on the San Pablo Peninsula in the city of Richmond. This development seeks to provide residential, commercial and recreational services to the public through the rehabilitation of historical buildings and inclusion of retail, restaurant and residential facilities. Additionally, the proposed Project includes conversion of 180 acres of existing land to publicly available trails and open space, and removal of buried storage tanks currently in the Planning Areas. The Point Molate Project may add up to 2,000 residential units to the development or up to 585,000 square feet of commercial space, along with a terminal on an existing pier to be accessible by ferries, shuttles and/or water taxis.

FRIANT RANCH DECISION

As background, Environmental Impact Reports (EIRs) prepared pursuant to the California Environmental Quality Act (CEQA) have long evaluated project-related health effects of toxic air contaminants, such as diesel particulate matter, through quantitative and/or qualitative means relative to air district-issued thresholds of significance. However, EIRs historically have not evaluated the specific health effects of project-related increases in criteria pollutants,¹ other than to note and summarize scientific literature regarding the general effect of those pollutants on health. Instead, in accordance with air district-issued thresholds of significance and industry standard practice at the time, CEQA analysis historically and traditionally focused on estimating project-related mass emissions totals for criteria pollutants and, in certain cases, conducting dispersion modeling to assess impacts on local ambient air quality concentrations.

In December 2018, the California Supreme Court issued its decision in *Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502 (hereinafter referred to as “the Friant Ranch decision”). The Court noted that the EIR at issue in the Friant Ranch decision disclosed the project’s significant impacts attributable to the emissions of criteria pollutants, including oxides of nitrogen (NO_x), and particulate matter (PM), but did not correlate the project’s emissions to health effects. In finding the EIR inadequate in that respect, the Court held that the EIR should have “relate[d] the expected adverse air quality impacts to likely health consequences or explain[ed] in meaningful detail why it is not feasible at the time of drafting to provide such an analysis, so that the public may make informed decisions regarding the costs and benefits of” the project. (Id. at p. 510.)

Ramboll understands the Court’s ruling to apply to both attainment and non-attainment areas, as there was no apparent distinction between the two in the Friant Ranch decision. Ramboll also understands the Friant Ranch decision to apply only when there is a significant impact resulting from a project’s emission of criteria pollutants, as the decision focused on the informational value of correlating significant impacts to health effects.

¹ Criteria pollutants are those pollutants with an air pollution standard or pollutants which are precursors to those with a standard. Pollutants with an air pollution standard include nitrogen dioxide, sulfur dioxide, ozone, carbon monoxide, particulate matter smaller than 2.5 microns in diameter and 10 microns in diameter, and ozone. Precursor pollutants to criteria pollutants include oxides of nitrogen (NO_x), oxides of sulfur (SO_x), carbon monoxide (CO), and volatile organic compounds (VOCs).

CEQA practitioners and other expert agencies (like air districts) are still developing tools and methodologies to provide the type of CEQA analysis described in the California Supreme Court's decision. In this report, Ramboll presents one method that can be used to correlate project-related mass emissions totals for criteria pollutants to estimated health effects. More specifically, in order to estimate the health effects of the increases of criteria pollutants for the proposed Project, Ramboll applied a photochemical grid model (PGM), Comprehensive Air Quality Model with extensions (CAMx), to estimate the small increases in concentrations of ozone and PM_{2.5} in the region as a result of the emissions of criteria and precursor pollutants from the Project. We then applied a USEPA-authored program, the Benefits Mapping and Analysis Program (BenMAP)², to estimate the resulting health effects from the small increases in concentration. Only the health effects of ozone and PM_{2.5} are estimated, as those are the pollutants that USEPA uses in BenMAP to estimate the health effects of emissions of NO_x, VOCs, CO, SO₂, and PM_{2.5}. Ozone and PM_{2.5} have the most critical health effects and thus are the emissions evaluated to determine the Project's health effects.

ADDITIONAL EVALUATION

In light of a cited decision issued by the California Supreme Court issued in December 2018, this analysis estimates the health effects of criteria pollutants and their precursors, specifically those that are evaluated by the U.S. Environmental Protection Agency (USEPA) in rulemaking setting the national ambient air quality standards: NO_x, VOC [also known as reactive organic gases, or ROG, which are virtually the same as VOC with some slight differences]³, CO, ozone, SO₂, and PM_{2.5}. Health effect functions in BenMAP for PM use fine particulate (PM_{2.5}) as the causal PM agent, so the health effects of PM₁₀ are represented using PM_{2.5} as a surrogate. NO_x and VOCs are not criteria air pollutants but, in the presence of sunlight, they form ozone and contribute to the formation of secondary PM_{2.5} and thus are analyzed here. As a conservative measure, SO₂ and CO are evaluated due to their small contribution to the formation of secondary PM_{2.5} and ozone. The health effects from ozone and PM_{2.5} are examined for this Project because the USEPA has determined that these criteria pollutants would have the greatest effect on human health. The emissions of other criteria pollutants, including VOC, NO_x, CO and SO₂, are analyzed in their contribution in the formation of ozone and secondary PM_{2.5}.

The evaluation presented herein serves to describe the potential health effects of the criteria pollutant emissions already disclosed. This evaluation does not make a new significance determination.

² <https://www.epa.gov/benmap/benmap-ce-manual-and-appendices>.

³ Reactive organic gas (ROG) emissions are quantified and modeled as VOCs in this assessment. ROG means total organic gases minus ARB's "exempt" compounds (e.g., methane, ethane, CFCs, etc.). ROG is similar, but not identical, to USEPA's term "VOC", which is based on USEPA's exempt list, which is slightly different from ARB's list.

2. TECHNICAL APPROACH

The first step in the process is to run the PGM with appropriate information to assess the small increases in ambient air concentrations that the Project emissions may cause. PGMs require a database of information, including the spatial allocation of emissions, in the area to be modeled. This includes both base (background/existing) emissions and Project emissions. The latest publicly available PGM database for Northern California, which contains baseline emissions, was developed by the Bay Area Air Quality Management District (BAAQMD) in support of the 2012 Central California Ozone Study (CCOS)⁴ and was adapted for this analysis. This PGM database is tailored for Northern California using California-specific input tools (e.g., the Emission FACTors (EMFAC)⁵ mobile source emissions model) and uses a high-resolution 4-km horizontal grid to better simulate meteorology and air quality in the complex terrain and coastal environment of California.

Project emissions included NO_x, SO₂, CO, respirable (PM₁₀) and fine (PM_{2.5}) primary particulate matter (PM), and VOCs. As discussed above, NO_x and VOC are precursors to ozone and, along with SO₂, are also precursors to secondarily formed PM_{2.5}. CO also plays a smaller role in the formation of ozone and is thus conservatively evaluated here.

The USEPA's air quality modeling guidelines (Appendix W⁶) and ozone and PM_{2.5} modeling guidance⁷ recommend using a PGM to estimate ozone and secondary PM_{2.5} concentrations. The USEPA's modeling guidance does not recommend specific PGMs but provides procedures for determining an appropriate PGM on a case-by-case basis. Both the modeling guidelines and guidance note that the CAMx⁸ and the Community Multiscale Air Quality (CMAQ⁹) PGMs have been used extensively in the past and would be acceptable PGMs. As such, the USEPA has prepared a memorandum¹⁰ documenting the suitability for using CAMx and CMAQ for ozone and secondary PM_{2.5} modeling of single-sources or group of sources.

To estimate the potential outcome of the proposed Project's emissions on ambient air concentrations, the Project's emissions were added to the CAMx 4-km annual PGM modeling database.¹¹ Average daily operational and construction emissions from the Project were estimated as described in the Draft Supplemental Environmental Impact Report (SEIR).¹²

For use in PGMs, each Project emissions source must be spatially distributed across the modeling grid cells so that they can be incorporated into the gridded emission inventory. The total mitigated operational and construction emissions inventory for the Project was used in the analysis. Operational

⁴ <http://www.baaqmd.gov/about-air-quality/research-and-data/research-and-modeling>

⁵ <https://www.arb.ca.gov/emfac/>.

⁶ https://www3.epa.gov/ttn/scram/appendix_w/2016/AppendixW_2017.pdf.

⁷ https://www3.epa.gov/ttn/scram/guidance/guide/O3-PM-RH-Modeling_Guidance-2018.pdf.

⁸ <http://www.camx.com/>.

⁹ <https://www.epa.gov/cmaq>.

¹⁰ https://www3.epa.gov/ttn/scram/guidance/clarification/20170804-Photochemical_Grid_Model_Clarification_Memo.pdf.

¹¹ BAAQMD performed WRF meteorological modeling for the CCOS 4-km domain and 2012 calendar year that has been processed by WRF-CAMx to generate CAMx 2012 4-km meteorological inputs for the CCOS domain. The CMAQ 2012 emissions have been converted to the format used by CAMx using the CMAQ2CAMx processor.

¹² To the extent that the Draft SEIR used conservative inputs to estimate Project-related criteria pollutants and precursors, the analysis provided herein also is conservatively influenced by those inputs.

emissions include architectural coatings, VOCs in consumer products, emissions from hearths and landscaping equipment, natural gas combustion, diesel exhaust from stationary generators, emissions from a potential wastewater treatment plant, emissions associated with motor vehicle use, and emissions associated with ferry operation. Construction emissions include off-road equipment, mobile emissions from worker, vendor, and hauling trips, and architectural coatings. The emissions from architectural coatings, consumer products, hearths, landscaping equipment, natural gas combustion, the stationary generators, the potential wastewater treatment plant, and construction are located onsite, and were therefore allocated to the grid cells representing the Project site. The mobile source category includes both passenger vehicles and trucks; these emissions are spatially distributed in the site's primary grid cell, as well as in surrounding grid cells based on the distribution of project-related traffic from the proposed Project's Transportation Impact Analysis. Emissions from ferry operations were allocated to the grid cells where berthing and transit emissions would occur. Annual emission estimates from the Project were spatially gridded, temporally allocated, and chemically speciated to be used for photochemical grid modelling using the Sparse Matrix Operator Kernel Emissions (SMOKE) emissions modelling system supported by the USEPA. The emissions inventory, spatial allocation, and SMOKE inputs and outputs are shown in **Appendix A**.

As discussed above, the Northern California 2012 CCOS modeling database was used for this project. The Northern California 4-km PGM modeling databases is based on a 2012 base meteorological year. The 2035 future year projections were used for this analysis, as that is the nearest future year with base emissions available as of the date of this report. The Project's emissions were isolated by the source apportionment tools in CAMx to obtain the incremental ozone and PM_{2.5} concentration impacts due to the Project's emissions. More details and inputs for the PGM modeling are included in **Appendix B**.

Following completion of the CAMx source apportionment modeling, Ramboll used the USEPA's BenMAP^{13, 14} program to estimate the potential health effects of the Project's contribution to ozone and PM_{2.5} concentration. BenMAP uses the concentration estimates produced by CAMx, along with population and health effect concentration-response (C-R) functions, to estimate various health effects of the concentration increases. BenMAP has a wide history of applications by the USEPA and others, including for local-scale analysis¹⁵ as needed for assessing the health effects of a project's emissions. We used the BenMAP health effects C-R functions that are typically used in national rulemaking, such as the health effects assessment¹⁶ for the 2012 PM_{2.5} National Ambient Air Quality Standard (NAAQS). The health effects that we used for PM_{2.5} include mortality (all causes), hospital admissions (respiratory, asthma, cardiovascular), emergency room visits (asthma), and acute myocardial infarction (non-fatal). For ozone, the endpoints are mortality, emergency room visits (respiratory) and hospital admissions (respiratory). Details on the BenMAP inputs and outputs and definitions for the health effects are shown in **Appendix C**.

¹³ <https://www.epa.gov/benmap/how-benmap-ce-estimates-health-and-economic-effects-air-pollution>.

¹⁴ https://www.epa.gov/sites/production/files/2015-04/documents/benmap-ce_user_manual_march_2015.pdf.

¹⁵ <https://www.epa.gov/benmap/benmap-ce-applications-articles-and-presentations#local>.

¹⁶ https://www3.epa.gov/ttn/naaqs/standards/pm/data/PM_RA_FINAL_June_2010.pdf.

3. RESULTS

This section presents the results of the health effects analysis for the incremental increases in PM_{2.5} and ozone resulting from primary and precursor emissions for these constituents. The results presented here describe the potential health effects of the criteria pollutant emissions already disclosed, and the results themselves do not constitute a new significance determination.

It is important to note there are a number of conservative assumptions built into this evaluation, beginning with the quantification of emissions themselves. These conservative assumptions include, but are not limited to, the following:

- The Project is considering two buildout scenarios: one residential heavy and one commercial heavy. Emissions from the higher of the two alternatives (the residential heavy) were conservatively used in this evaluation.
- While full buildout is expected in year 2028, year 2024, the first potential year of residency, was conservatively assumed for operational emissions.
- Use of combined operational emissions at full Project buildout along with average daily construction emissions. In reality, any overlapping years of construction and operation would have lower operational emissions.
- Assumption that health effects occur at any concentration, including small incremental concentrations (discussed further in Appendix C);
- Assumption that all PM_{2.5} is of equal toxicity (discussed further in Appendix C);

As such, results presented below are meant to represent an upper bound of potential health effects, and actual effects may be zero.

POTENTIAL HEALTH EFFECTS

Overall, the estimated health effects from ozone and PM_{2.5} are negligible in light of background incidences. Specifically, for all the health endpoints quantified, the number of estimated incidences is less than 0.0006% of the background health incidence. The “background health incidence” is the actual incidence of health effects as measured in the local population in the absence of additional emissions from the Project. When taken into context, the small increase in incidences and the very small percent of the number of background incidences indicate that these health effects are negligible in a developed, urban environment.

PM_{2.5}-related health effects attributed to Project-related increases in ambient air concentrations included asthma-related emergency room visits (0.21 incidences per year), asthma-related hospital admissions (0.01 incidences per year), all cardiovascular-related hospital admissions (not including myocardial infarctions) (0.03 incidences per year), all respiratory-related hospital admissions (0.08 incidences per year), mortality (0.43 incidences per year), and nonfatal acute myocardial infarction (less than 0.02 incidences per year for each age group).

Ozone-related health effects attributed to Project-related increases in ambient air concentrations included respiratory-related hospital admissions (0.06 incidences per year), mortality (0.03 incidences per year), and asthma-related emergency room visits for any age range (lower than 0.45 incidences per year for each age group).

Because the health effects from ozone and PM_{2.5} are negligible in light of background incidences, and health effects from other criteria pollutants would be even smaller, the health effects of those other criteria pollutants were not quantified.

UNCERTAINTY

Analyses that evaluate the increases in concentrations resulting from individual sources, and the health effects of increases or decreases in pollutants as a result of regulation on a localized basis are routinely done. This analysis does not tie the increase in concentration to a specific health effect in an individual; however, it does use scientific correlations of certain types of health effects from pollution to estimate increases in effects to the population at large.

There is a degree of uncertainty in these results from a combination of the uncertainty in the emissions themselves, the increase in concentration resulting from the PGM and the uncertainty of the application of the C-R increase. All simulations of physical processes, whether ambient air concentrations, or health effects from air pollution, have a level of uncertainty associated with them, due to simplifying assumptions. The overall uncertainty is a combination of the uncertainty associated with each piece of the modeling study, in this case, the emissions quantification, the emissions model, the PGM, and BenMAP. While these results reflect a level of uncertainty, regulatory agencies, including the USEPA have judged that, even with the uncertainty in the results, the results provide sufficient information to the public to allow them to understand the potential health effects of increases or decreases in air pollution.

The approach and methodology of this analysis ensures that the uncertainty is of a conservative nature. In addition to the conservative assumptions built into the emissions noted above, there are a number of assumptions built into the application of C-R functions in BenMAP that may lead to an overestimation of health effects. For example, for all-cause mortality health effects from PM_{2.5}, these estimates are based on a single epidemiological study that found an association between PM_{2.5} concentrations and mortality. While similar studies suggest that such an association exists, there remains uncertainty regarding a clear causal link. This uncertainty stems from the limitations of epidemiological studies, such as inadequate exposure estimates and the inability to control for many factors that could explain the association between PM_{2.5} and mortality such as lifestyle factors like smoking. Several reviews have evaluated the scientific evidence of health effects from specific particulate components (e.g., Rohr and Wyzga 2012; Lippmann and Chen, 2009; Kelly and Fussell, 2007). These reviews indicate that the evidence is strongest for combustion-derived components of PM including elemental carbon (EC), organic carbon (OC) and various metals (e.g., nickel and vanadium); however, there is still no definitive data that points to any particular component of PM as being more toxic than other components. The USEPA has also stated that results from various studies have shown the importance of considering particle size, composition, and particle source in determining the health effects of PM (USEPA, 2009). Further, the USEPA (2009) found that studies have reported that particles from industrial sources and from coal combustion appear to be the most significant contributors to PM-related mortality, consistent with the findings by Rohr and Wyzga (2012) and others. This is particularly important to note here, as a large portion of PM emissions generated from the Project are from entrained roadway dust (see Appendix A), and not from combustion. Therefore, because they do not consider the relative toxicity of PM components, the results presented here are conservative.

For both the PM_{2.5} and ozone health effects calculated, each of the pollutants may be a confounder of the other. Thus, while the C-R functions are from studies that evaluated the effects for each

pollutant individually, both air pollutants could contribute to the health effect outcomes evaluated, and thus the overall impacts may be overstated.

Another uncertainty highlighted by the USEPA (2012) that applies to potential health effects from both PM_{2.5} and ozone, is the assumption of a log-linear response between exposure and health effects, without consideration for a threshold below which effects may not be measurable. The issue of a threshold for PM_{2.5} and ozone is highly debatable and can have significant implications for health effects analyses as it requires consideration of current air pollution levels and calculating effects only for areas that exceed threshold levels. Without consideration of a threshold, any incremental contribution to existing ambient air pollution levels, whether below or above the applicable threshold for a given criteria pollutant, is assumed to adversely affect health. Although the USEPA traditionally does not consider thresholds in its cost-benefit analyses, the NAAQS itself is a health-based threshold level that the USEPA has developed based on evaluating the most current evidence of health effects.

As noted above, the health effects estimation using this method presumes that effects seen at large concentration differences can be linearly scaled down to (i.e., correspond to) small increases in concentration, with no consideration of potential thresholds below which health effects may not occur. This methodology of linearly scaling health effects is broadly accepted for use in regulatory evaluations and is considered as being health protective (USEPA, 2010), but potentially overstates the potential effects. In summary, health effects presented are conservatively estimated, and the actual effects may be zero.

4. REFERENCES

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- /2/ Lippmann, M., L.C. Chen, 2009. Health effects of concentrated ambient air particulate matter (CAPs) and its components. *Crit. Rev. Toxicol.*, 39, 865e913.
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- /4/ USEPA, 2009. Integrated Science Assessment (ISA) For Particulate Matter (Final Report, Dec 2009). U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-08/139F, 2009. <https://cfpub.epa.gov/ncea/isa/recordisplay.cfm?deid=216546>
- /5/ USEPA, 2010. Quantitative Health Risk Assessment for Particulate Matter. Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency. EPA-452/R-10-005. June 2010. Available: https://www3.epa.gov/ttn/naaqs/standards/pm/data/PM_RA_FINAL_June_2010.pdf.
- /6/ USEPA, 2012. Regulatory Impact Analysis for the Final Revisions to the National Ambient Air Quality Standards for Particulate Matter. U.S. Environmental Protection Agency, Washington, DC, EPA-452/R-12-005. https://www3.epa.gov/ttn/ecas/docs/ria/naaqs-pm_ria_final_2012-12.pdf.

APPENDIX A

EMISSIONS INVENTORY, SPATIAL ALLOCATION, AND SMOKE SETUP POINT MOLATE RICHMOND, CALIFORNIA

1. INTRODUCTION

As set forth in the Project’s Draft Supplemental Environmental Impact Report (SEIR), construction and operational emissions from the Project were estimated using methodologies consistent with the California Emissions Estimator Model (CalEEMod®) and Project-specific data, where available. The model employs widely accepted calculation methodologies for emission estimates combined with appropriate default data if site-specific information is not available.

Annual emission estimates from the Project need to be spatially gridded, temporally allocated, and chemically speciated to be used for photochemical grid modeling. The Sparse Matrix Operator Kerner Emissions (SMOKE) emissions modeling system (Coats, 1996; Coats and Houyoux, 1996)¹ is used for this process.

Development of the gridded Project emissions is described in detail in Section 2 of this Appendix.

2. PROJECT EMISSIONS AND SPATIAL ALLOCATION

Emissions were estimated for the Project to support the photochemical grid model (PGM) and are allocated into 4 kilometer (km) x 4 km grid cells. This section describes those emissions and how they were spatially allocated.

2.1 Project Emissions and Spatial Allocation

For use in PGMs, emissions must be spatially allocated over the area so that they can be incorporated into the gridded emission inventory. The total emission inventory for the Project is below in **Table 2-1**. Mobile source emissions were split into categories based on the EMFAC2017 emission rates. For particulate matter, less than 2.5 microns in diameter (PM_{2.5}) emissions are used in the modelling; less than 10 microns in diameter (PM₁₀) emissions are presented for information below.

Table 2-1. Average Daily Criteria Air Pollutant Emissions Estimates						
Emission Category	ROG	NOx	CO	SO₂	PM₁₀	PM_{2.5}
	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
Construction						
Architectural Coating	11	0	0	0	0	0
Off-Road Equipment	0.72	5.1	27	0.043	0.17	0.16
Mobile (total)	3.3	25	24	0.15	11	3.1
Diurnal	0.15	0	0	0	0	0
Hotsoak	0.36	0	0	0	0	0
Idling Exhaust	0.28	2.5	3.0	0.0036	5.7E-05	1.1E-04
Brakewear	0	0	0	0	0.063	0.058
Tirewear	0	0	0	0	0.018	0.0092
Resting Loss	0.15	0	0	0	0	0
Road Dust	0	0	0	0	11	3.0
Running Exhaust	0.47	20	15	0.15	0.0077	0.015
Running Loss	1.1	0	0	0	0	0

¹ <https://www.cmascenter.org/smoke/>.

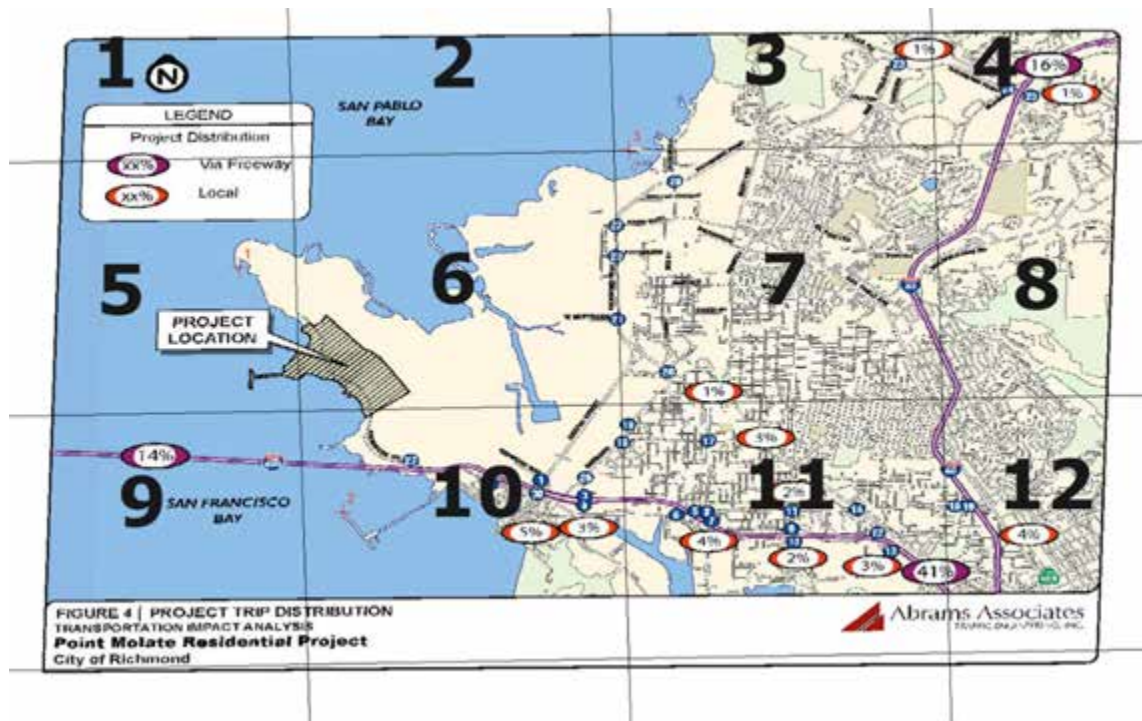
Starting Exhaust	0.79	3.1	6.7	0.0019	2.6E-04	5.3E-04
Operational						
Architectural Coating	0.79	0	0	0	0	0
Consumer Products	36	0	0	0	0	0
Hearths	0.083	0.71	0.30	0.0045	0.058	0.058
Landscaping	5.5E-05	0	0.0049	0	0	0
Energy (Natural Gas)	0.84	7.2	3.5	0.046	0.58	0.58
Generators	0.18	0.59	3.1	0.0058	0.024	0.024
Ferry (total)	0.78	14	14	0.015	0.17	0.17
Idling	0.024	0.44	0.44	4.7E-04	0.0051	0.0051
Transit	0.75	14	14	0.015	0.16	0.16
Wastewater Treatment Plant (total)	0.25	0.33	1.6	0.0031	0.015	0.015
Energy	0.0042	0.038	0.032	2.2E-04	0.0028	0.0028
Process Emissions	0.15	--	--	--	--	--
Generator	0.089	0.30	1.5	0.0029	0.012	0.012
Mobile (total)	14	28	139	0.41	25	7.4
Diurnal	0.75	0	0	0	0	0
Hotsoak	1.8	0	0	0	0	0
Idling Exhaust	0.22	0.14	2.7	7.5E-04	5.4E-05	1.0E-04
Brakewear	0	0	0	0	0.27	0.25
Tirewear	0	0	0	0	0.058	0.032
Resting Loss	0.75	0	0	0	0	0
Road Dust	0	0	0	0	25	7.0
Running Exhaust	1.4	18	92	0.40	0.013	0.026
Running Loss	4.8	0	0	0	0	0
Starting Exhaust	4.0	10	45	0.010	0.0016	0.0034
Project Total	68	82	213	0.68	37	11
<p>Abbreviations: CO - Carbon Monoxide lbs - Pounds NOx - Nitrogen Oxides PM_{2.5} - Particulate Matter less than 2.5 microns in diameter PM₁₀ - Particulate Matter less than 10 microns in diameter ROG - Reactive Organic Gas SO₂ - Sulfur Dioxide</p>						

All emissions listed in **Table 2-1** represent the average daily mitigated construction and operational emissions estimated for the proposed Project's buildout scenario. While full buildout is expected in year 2028, year 2024, the first potential year of residency, was conservatively assumed for

1	0.0%	2	0.0%	3	1.0%	4	6.2%
5	0.0%	6	0.0%	7	2.9%	8	3.6%
9	10.2%	10	26.9%	11	40.0%	12	9.2%

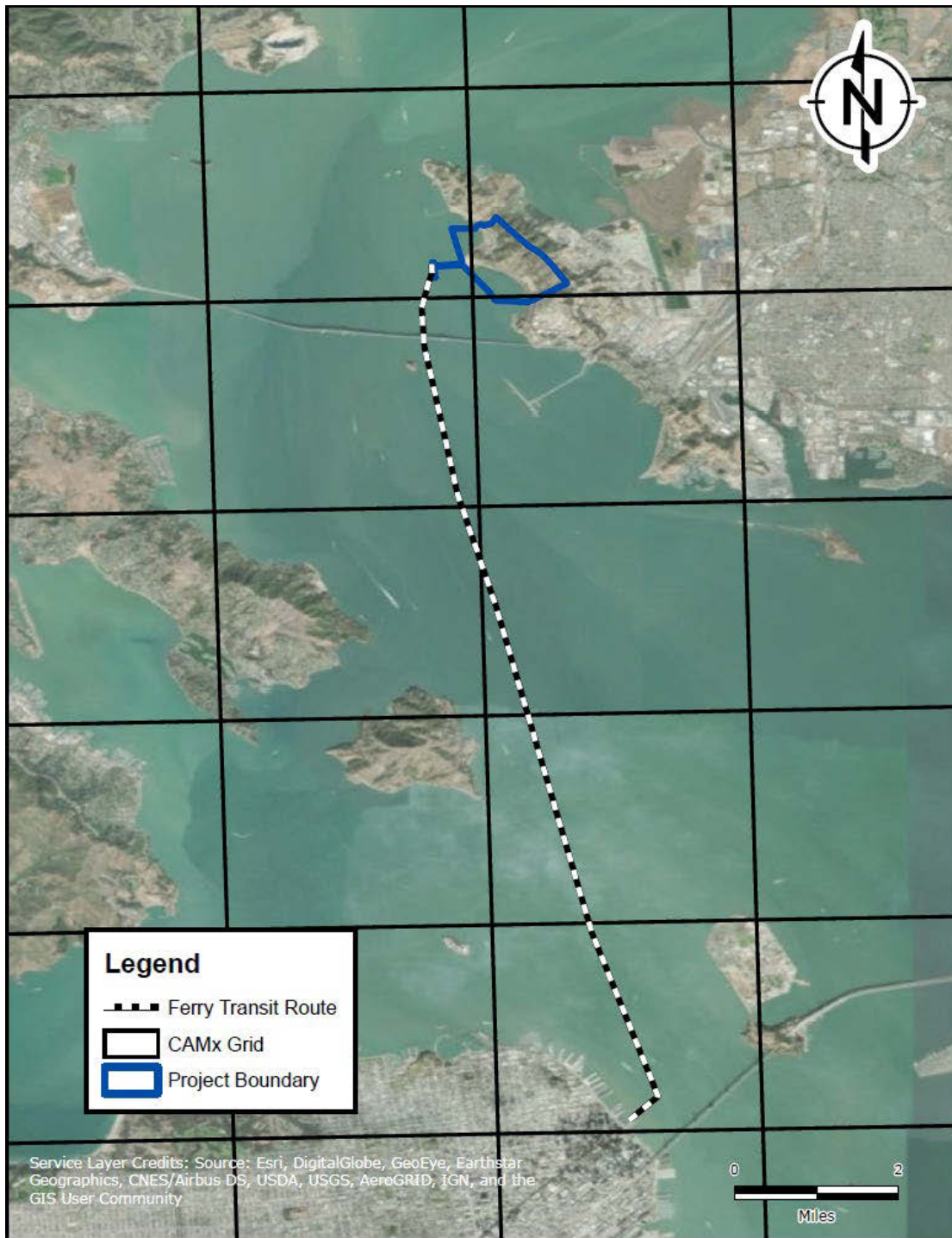
Because the roadway through the project boundary falls entirely into one grid cell (Grid Cell 6), all on-site mobile emissions are allocated to this cell. **Figure 2-2** below shows the Project trip distributions over the model grid cells.

Figure 2-2. Project Trip Distribution Over Model Grid Cells



Ferry emissions associated with idling are allocated to the above referenced Grid Cell 5, where the pier is located. Ferry emissions associated with transit are allocated along the anticipated transit route from Point Molate to the SF Ferry Terminal, as shown in **Figure 2-3** below. Transit emissions are split by grid cell based on the relative distance within each cell.

Figure 2-3. Proposed Ferry Route Over Model Grid Cells



2.2 Convert Project Inventories to SMOKE Input Format

The first step in the emissions processing was to convert the Project emission inventory into the Flat File 2010 (FF10) format for input to SMOKE. We assigned appropriate Source Classification Codes (SCCs) to the Project emissions sources. **Table 2-3** provides the SCC assigned to each Project source.

Table 2-3. Assigned SCC to Project Emission Sources

Emission Source	SCC	SCC Description
Architectural Coatings	2401001000	Solvent Utilization; Surface Coating; Architectural Coatings; Total: All Solvent Types
Construction Off-road Equipment	2270002000	Mobile Sources; Off-highway Vehicle Diesel; Construction and Mining Equipment; Total
Consumer Products	2460000000	Solvent Utilization; Miscellaneous Non-industrial: Consumer and Commercial; All Processes; Total: All Solvent Types
Consumer Products	2460100000	Solvent Utilization; Miscellaneous Non-industrial: Consumer and Commercial; All Personal Care Products; Total: All Solvent Types
Consumer Products	2460200000	Solvent Utilization; Miscellaneous Non-industrial: Consumer and Commercial; All Household Products; Total: All Solvent Types
Consumer Products	2460400000	Solvent Utilization; Miscellaneous Non-industrial: Consumer and Commercial; All Automotive Aftermarket Products; Total: All Solvent Types
Consumer Products	2460500000	Solvent Utilization; Miscellaneous Non-industrial: Consumer and Commercial; All Coatings and Related Products; Total: All Solvent Types
Consumer Products	2460600000	Solvent Utilization; Miscellaneous Non-industrial: Consumer and Commercial; All Adhesives and Sealants; Total: All Solvent Types
Consumer Products	2460800000	Solvent Utilization; Miscellaneous Non-industrial: Consumer and Commercial; All FIFRA Related Products; Total: All Solvent Types
Consumer Products	2460900000	Solvent Utilization; Miscellaneous Non-industrial: Consumer and Commercial; Miscellaneous Products (Not Otherwise Covered); Total: All Solvent Types
Energy (Stationary Engines)	20200102	Internal Combustion Engines; Industrial; Distillate Oil (Diesel); Reciprocating
Energy (Natural Gas)	2102006000	Stationary Source Fuel Combustion; Industrial; Natural Gas; Total: Boilers and IC Engines
Marine Vessels (Ferries)	2280002010	Mobile Sources; Marine Vessels, Commercial; Diesel; Ocean-going Vessels
Mobile	220100111B	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Vehicles (LDGV); Rural ² Interstate: Brake Wear
Mobile	220100111R	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Vehicles (LDGV); Rural Interstate: Resting Loss
Mobile	220100111S	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Vehicles (LDGV); Rural Interstate: Start

² Rural and Urban mobile designations provide equivalent chemical speciation and temporal distributions, as the EMFAC mobile emissions model does not distinguish between the two.

Emission Source	SCC	SCC Description
Mobile	220100111T	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Vehicles (LDGV); Rural Interstate: Tire Wear
Mobile	220100111V	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Vehicles (LDGV); Rural Interstate: Evap (except Refueling)
Mobile	220100111X	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Vehicles (LDGV); Rural Interstate: Exhaust
Mobile	220102011B	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Trucks 1 & 2 (M6) = LDGT1 (M5); Rural Interstate: Brake Wear
Mobile	220102011R	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Trucks 1 & 2 (M6) = LDGT1 (M5); Rural Interstate: Resting Loss
Mobile	220102011S	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Trucks 1 & 2 (M6) = LDGT1 (M5); Rural Interstate: Start
Mobile	220102011T	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Trucks 1 & 2 (M6) = LDGT1 (M5); Rural Interstate: Tire Wear
Mobile	220102011V	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Trucks 1 & 2 (M6) = LDGT1 (M5); Rural Interstate: Evap (except Refueling)
Mobile	220102011X	Mobile Sources; Highway Vehicles - Gasoline; Light Duty Gasoline Trucks 1 & 2 (M6) = LDGT1 (M5); Rural Interstate: Exhaust
Mobile	2201070110	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Interstate: Total
Mobile	220107011B	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Interstate: Brake Wear
Mobile	220107011I	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 2B; Rural Interstate: Idling
Mobile	220107011R	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Interstate: Resting Loss
Mobile	220107011S	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Interstate: Start
Mobile	220107011T	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Interstate: Tire Wear
Mobile	220107011V	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Interstate: Evap (except Refueling)
Mobile	220107011X	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Interstate: Exhaust
Mobile	2201070130	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Other Principal Arterial: Total

Emission Source	SCC	SCC Description
Mobile	220107013B	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Other Principal Arterial: Brake Wear
Mobile	220107013I	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Other Principal Arterial: Idling
Mobile	220107013R	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Other Principal Arterial: Resting Loss
Mobile	220107013S	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Other Principal Arterial: Start
Mobile	220107013T	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Other Principal Arterial: Tire Wear
Mobile	220107013V	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Other Principal Arterial: Evap (except Refueling)
Mobile	220107013X	Mobile Sources; Highway Vehicles - Gasoline; Heavy Duty Gasoline Vehicles 2B thru 8B & Buses (HDGV); Rural Other Principal Arterial: Exhaust
Mobile	220108011B	Mobile Sources; Highway Vehicles - Gasoline; Motorcycles (MC); Rural Interstate: Brake Wear
Mobile	220108011R	Mobile Sources; Highway Vehicles - Gasoline; Motorcycles (MC); Rural Interstate: Resting Loss
Mobile	220108011S	Mobile Sources; Highway Vehicles - Gasoline; Motorcycles (MC); Rural Interstate: Start
Mobile	220108011T	Mobile Sources; Highway Vehicles - Gasoline; Motorcycles (MC); Rural Interstate: Tire Wear
Mobile	220108011V	Mobile Sources; Highway Vehicles - Gasoline; Motorcycles (MC); Rural Interstate: Evap (except Refueling)
Mobile	220108011X	Mobile Sources; Highway Vehicles - Gasoline; Motorcycles (MC); Rural Interstate: Exhaust
Mobile	223000111B	Mobile Sources; Highway Vehicles - Diesel; Light Duty Diesel Vehicles (LDDV); Rural Interstate: Brake Wear
Mobile	223000111T	Mobile Sources; Highway Vehicles - Diesel; Light Duty Diesel Vehicles (LDDV); Rural Interstate: Tire Wear
Mobile	223000111X	Mobile Sources; Highway Vehicles - Diesel; Light Duty Diesel Vehicles (LDDV); Rural Interstate: Exhaust
Mobile	223006011B	Mobile Sources; Highway Vehicles - Diesel; Light Duty Diesel Trucks 1 thru 4 (M6) (LDDT); Rural Interstate: Brake Wear
Mobile	223006011T	Mobile Sources; Highway Vehicles - Diesel; Light Duty Diesel Trucks 1 thru 4 (M6) (LDDT); Rural Interstate: Tire Wear
Mobile	223006011X	Mobile Sources; Highway Vehicles - Diesel; Light Duty Diesel Trucks 1 thru 4 (M6) (LDDT); Rural Interstate: Exhaust

Emission Source	SCC	SCC Description
Mobile	223007111B	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 2B; Rural Interstate: Brake Wear
Mobile	223007111I	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 2B; Rural Interstate: Idling
Mobile	223007111T	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 2B; Rural Interstate: Tire Wear
Mobile	223007111X	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 2B; Rural Interstate: Exhaust
Mobile	2230072110	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 3, 4, & 5; Rural Interstate: Total
Mobile	223007211B	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 3, 4, & 5; Rural Interstate: Brake Wear
Mobile	223007211I	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 3, 4, & 5; Rural Interstate: Idling
Mobile	223007211T	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 3, 4, & 5; Rural Interstate: Tire Wear
Mobile	223007211X	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 3, 4, & 5; Rural Interstate: Exhaust
Mobile	223007311B	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 6 & 7; Rural Interstate: Brake Wear
Mobile	223007311I	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 6 & 7; Rural Interstate: Idling
Mobile	223007311S	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 6 & 7; Rural Interstate: Start
Mobile	223007311T	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 6 & 7; Rural Interstate: Tire Wear
Mobile	223007311X	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Vehicles (HDDV) Class 6 & 7; Rural Interstate: Exhaust
Mobile	223007513B	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Buses (School & Transit); Rural Other Principal Arterial: Brake Wear
Mobile	223007513I	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Buses (School & Transit); Rural Other Principal Arterial: Idling
Mobile	223007513S	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Buses (School & Transit); Rural Other Principal Arterial: Start
Mobile	223007513T	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Buses (School & Transit); Rural Other Principal Arterial: Tire Wear

Emission Source	SCC	SCC Description
Mobile	223007513X	Mobile Sources; Highway Vehicles - Diesel; Heavy Duty Diesel Buses (School & Transit); Rural Other Principal Arterial: Exhaust
Mobile	2294000000	Mobile Sources; Paved Roads; All Paved Roads; Total: Fugitives
Waste Water Treatment Plant	2630010000	Waste Disposal, Treatment, and Recovery; Wastewater Treatment; Industrial ; Total Processed
Hearths	2104006000	Stationary Source Fuel Combustion; Residential; Natural Gas; Total: All Combustor Types
Landscaping	2265004010	Mobile Sources; Off-highway Vehicle Gasoline, 4-Stroke; Lawn and Garden Equipment; Lawn Mowers (Residential)

2.2.1 Generate Spatial Surrogates for 4-km Domains

As part of the analysis, the Project source emissions need to be spatially allocated to appropriate geographic locations. The emissions can be allocated to modeling grid cells using gridding surrogates. To process the Project emissions, a Project area-based spatial surrogate was developed. The surrogate was developed using the US Environmental Protection Agency (USEPA’s) Spatial Allocation Tool,³ which combines geographical information system (GIS)-based data (shapefiles) and modeling domain definitions to generate the appropriate gridded surrogate data set. The Project sources were then assigned specific surrogates for gridding by cross-referencing the SCCs. As mentioned above, all onsite Project emissions were distributed in the modeling grid cells where the Project is located as shown in **Figure 2-1**. The on-road mobile sources are spatially distributed in the site’s grid cells and surrounding grid cells, as outlined in **Table 2-2 and Figure 2-2**. Ferry emissions are spatially distributed where the pier is located (for idling emissions) and along the anticipated transit route, as shown in **Figure 2-3**.

2.2.2 SMOKE 4 km Processing of Project Emissions

SMOKE system was used to process emissions for the Northern California 4-km modeling grid shown in **Figure 2-1**. A representative week from each month (seven days a month) was used to represent the entire month’s emissions. Holidays were modeled separately as if they were a Sunday. SMOKE was applied to perform following tasks:

1. **Chemical Speciation:** Emission estimates of criteria air pollutants were speciated for the SAPRC07 AERO6 chemical mechanism employed in CMAQ in SMOKE processing. We used speciation profiles compatible with the SAPRC07 AERO6 mechanism for PM_{2.5} from the BAAQMD’s modeling system to be consistent with the regional modeling emissions. We then converted those emissions into CAMx-ready formats using CMAQ2CAMx conversion program and species mapping.
2. **Temporal Allocation:** Annual emission estimates were resolved on an hourly timescale for CAMx modeling. These allocations were determined from the particular source category, specified by the SCC. Monthly, weekly, and diurnal profiles were cross-referenced to SCC to provide the appropriate temporal resolution. The temporal profiles were also obtained from the BAAQMD’s emissions modeling system.
3. **Spatial Allocation:** The Project emission estimates were spatially resolved to the grid cells for modeling using spatial surrogates as described above.

³ https://www.cmascenter.org/sa-tools/documentation/4.2/html/srgtool/SurrogateToolUserGuide_4_2.pdf

2.2.3 QA/QC of Emissions Modeling

Standard quality assurance/quality control (QA/QC) was conducted during all aspects of the SMOKE emissions processing. These steps followed the approach recommended in the USEPA modeling guidance (USEPA, 2007). SMOKE includes quality assurance (QA) and reporting features to keep track of the adjustments at each processing stage and ensure that data integrity is not compromised. We carefully reviewed the SMOKE log files for error messages and ensured that appropriate source profiles were used. All error records reported during processing were reviewed and resolved. This is important to ensure that source categories are correctly characterized. We also compared SMOKE input and output emissions: Summary tables were generated to compare input inventory totals against model-ready output totals to confirm consistency. Spatial plots were generated to visually verify correct spatial allocation of the emissions.

2.2.4 Merge SMOKE Pre-merged Emissions to Generate CAMx-ready Emission Inputs

The final step in the emissions processing is to merge the Project gridded emissions with other regional components through the gridded merge program (MRGUAM) for CAMx. We merged the daily emissions in the time format required by CAMx.

2.2.5 Emissions Summary

Summaries of the Project gridded CAMx model-ready emissions data are provided in this section. **Table 2-4** summarizes the Project emission inventory data input to SMOKE from the FF10 data files in pounds per day by source type. **Table 2-5** presents the emissions data after SMOKE processing. The consistency in data in Tables 2-4 and Table 2-5 offer confidence in the correct operation of the SMOKE emissions processing for CAMx.

Table 2-4. Project Emission Inventory Data Input to SMOKE by Source Type (lbs/day)

Type	CO	NO _x	VOC	SO ₂	PM ₁₀	PM _{2.5}
Mobile	163.9	53.5	7.5	0.57	36.3	10.4
Off-Road Equipment	26.6	5.1	0.72	0.04	0.17	0.16
Energy	4.6	0.89	0.27	0.01	0.04	0.04
Operational Architectural Coatings	0.00	0.00	12.09	0.00	0.00	0.00
Consumer Products	0.00	0.00	45.30	0.00	0.00	0.00
Ferry	14.4	14.4	0.78	0.02	0.17	0.17
Wastewater Treatment Process ¹	0.00	0.00	0.15	0.00	0.00	0.00
Generators	3.5	7.2	0.84	0.05	0.58	0.58
Hearths	0.30	0.71	0.08	0.00	0.06	0.06
Landscaping	0.005	0	0.00005	0	0	0
Total	213	82	68	0.68	37	11

Notes:

1. The generator and energy emissions associated with the Wastewater Treatment Plant are included in the Energy and Generator totals in this table.

Abbreviations:

CO - Carbon Monoxide

NO_x - Nitrogen Oxides
 PM_{2.5} - Particulate Matter less than 2.5 microns in diameter
 PM₁₀ - Particulate Matter less than 10 microns in diameter
 SO₂ - Sulfur Dioxide
 VOC - Volatile Organic Compounds

Table 2-5. Project Emission Inventory Data Output from SMOKE by Project Region (lbs/day)

Type	CO	NO _x	VOC	SO ₂	PM ₁₀	PM _{2.5}
Onsite	92.3	41.4	58.5	0.20	5.9	2.4
Offsite	120.9	40.4	9.2	0.48	31.5	9.0
Total	213	82	68	0.68	37	11

Abbreviations:
 CO - Carbon Monoxide
 NO_x - Nitrogen Oxides
 PM_{2.5} - Particulate Matter less than 2.5 microns in diameter
 PM₁₀ - Particulate Matter less than 10 microns in diameter
 SO₂ - Sulfur Dioxide
 VOC - Volatile Organic Compounds

Spatial displays of the gridded emissions data are presented below. We examined the gridded emissions in 4-km grid to verify accurate spatial allocation by SMOKE. **Figures 2-4 through 2-9** display gridded emissions for the Project inventory in the 4-km modeling grid.

Figure 2-4. Spatial Distribution of CO Emissions (in lbs/day) for the Project in the Northern California 4-km Domain

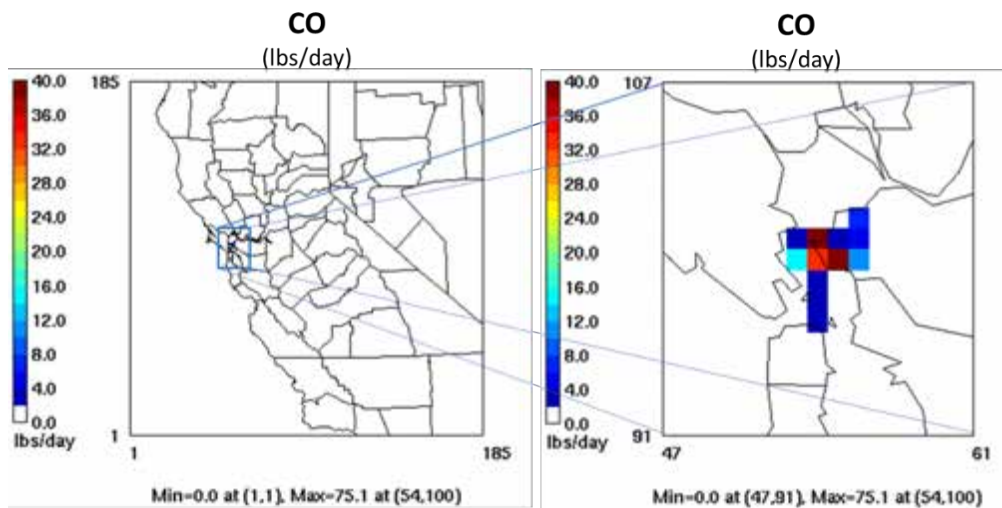


Figure 2-5. Spatial Distribution of NO_x Emissions (in lbs/day) for the Project in the Northern California 4-km Domain

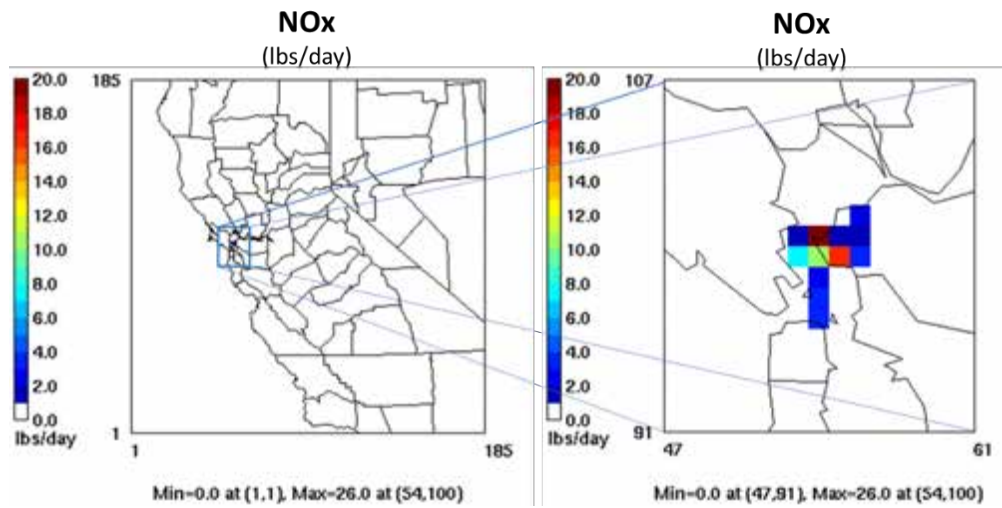


Figure 2-6. Spatial Distribution of VOC Emissions (in lbs/day) for the Project in the Northern California 4-km Domain

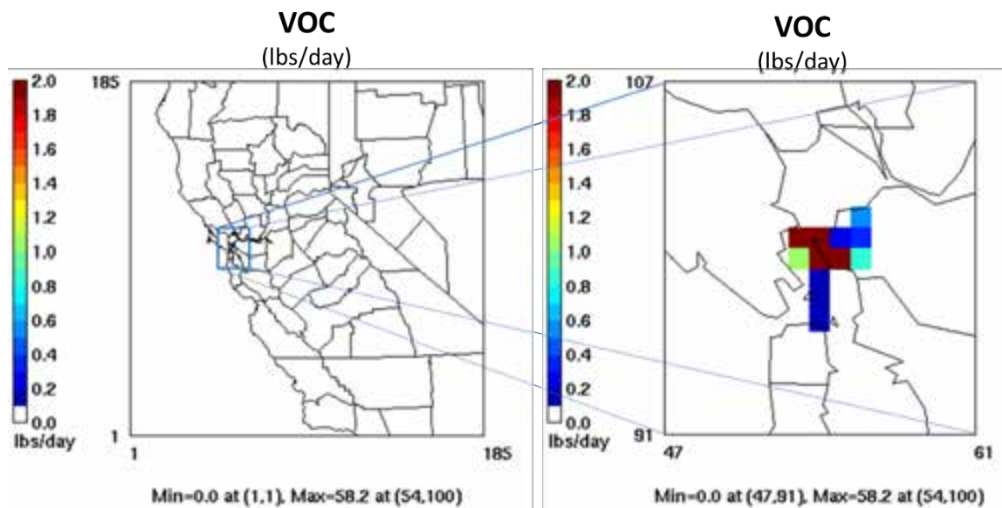


Figure 2-7. Spatial Distribution of SO₂ Emissions (in lbs/day) for the Project in the Northern California 4-km Domain

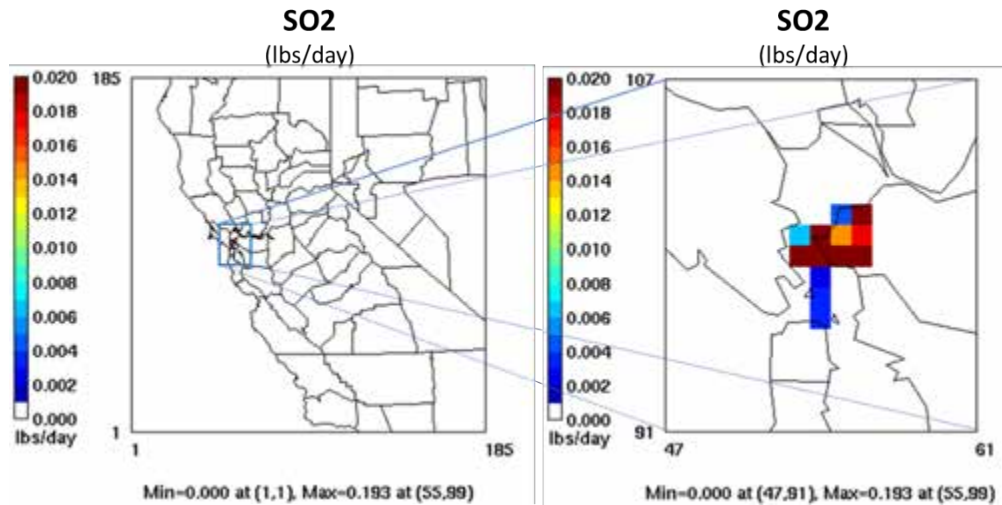


Figure 2-8. Spatial Distribution of PM₁₀ Emissions (in lbs/day) for the Project in the Northern California 4-km Domain

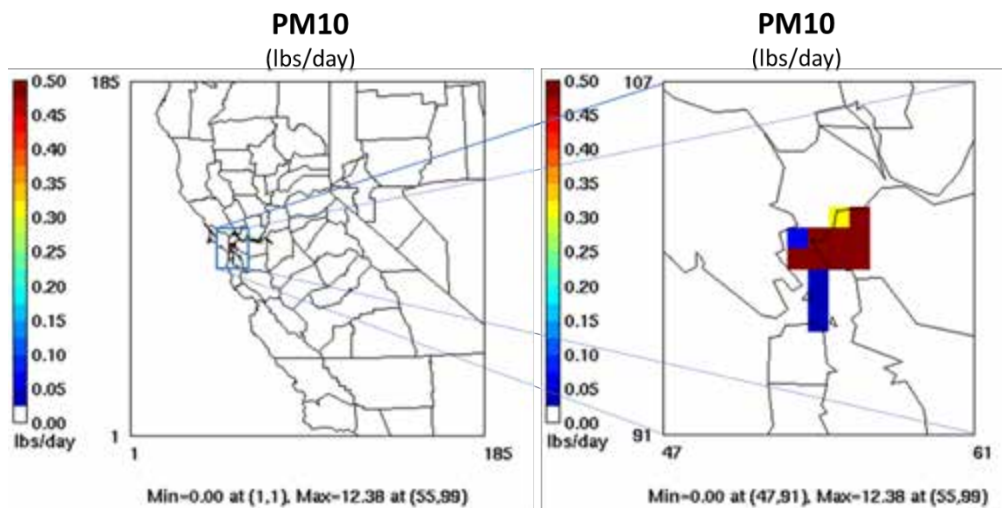
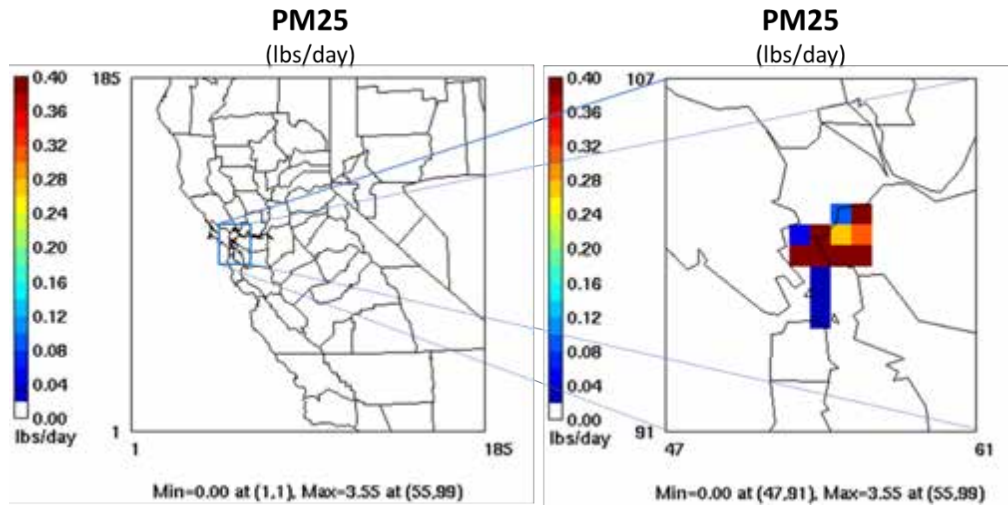


Figure 2-9. Spatial Distribution of PM_{2.5} Emissions (in lbs/day) for the Project in the Northern California 4-km Domain



3. REFERENCES

- /1/ Coats Jr., C.J., 1996. High-performance algorithms in the Sparse Matrix Operator Kernel Emissions (SMOKE) modeling system. Proc. Ninth AMS Joint Conference on Applications of Air Pollution Meteorology with AWMA. Amer. Meteor. Soc., Atlanta, GA, 584-588.
- /2/ Coats Jr., C.J., Houyoux, M.R., 1996. Fast Emissions Modeling with the Sparse Matrix Operator Kernel Emissions (SMOKE) Modeling System. The Emission Inventory: Key to Planning, Permits, Compliance, and Reporting, Air & Waste Management Association. New Orleans, Louisiana.
- /3/ USEPA, 2007. Guidance on the Use of Models and Other Analyses for Demonstrating Attainment of Air Quality Goals for Ozone, PM2.5 and Regional Haze. Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, Research Triangle Park, NC. EPA-454/B-07-002.

APPENDIX B

PGM INPUTS, OUTPUTS, AND ASSUMPTIONS POINT MOLATE RICHMOND, CALIFORNIA

1. REGIONAL AIR QUALITY MODELING PLATFORM

The Northern California 2012 4-km CAMx modeling database and a projected 2035 emissions database was used in this assessment. The 2012 base case is based on a Photochemical Grid Model (PGM) modeling databases developed by the BAAQMD. This PGM database is tailored for California using California-specific input tools (e.g., the EMFAC¹ mobile source emissions model) and use a high-resolution 4-km horizontal grid to better simulate meteorology and air quality in the complex terrain and coastal environment of California. This contrasts with EPA's national modeling platforms² used for national rulemakings (e.g., transport rules such as CSAPR³ or defining new NAAQS) that use a coarser 12-km horizontal grid resolution.

Details of the model inputs, configuration, and results are presented in Section 2 of this Appendix.

Figure 1-1. Air quality modeling domain for Northern California



¹ <https://www.arb.ca.gov/emfac/>

² <https://www.epa.gov/air-emissions-modeling/2014-2016-version-7-air-emissions-modeling-platforms>

³ <https://www.epa.gov/csapr>

2. REGIONAL GRID MODELING

In this section, we describe the regional PGM modeling setup to assess the impact of the Project emissions on the ambient Particulate Matter less than 2.5 microns in diameter (PM_{2.5}) levels in the region. The 2012 base case modeling databases were developed by the BAAQMD for the Community Multiscale Air Quality (CMAQ) PGM. The CMAQ annual 2012 4-km modeling database and annual 2012 4-km Weather Research and Forecasting (WRF) meteorological model output files were obtained from the BAAQMD. The BAAQMD CMAQ and WRF 2012 4-km data were then processed to obtain a 2012 4-km annual PGM modeling database for the Comprehensive Air Quality Model with extensions (CAMx)⁴. The following paragraphs described how Ramboll developed the CAMx 2012 4-km annual database used in this study, starting with the BAAQMD CMAQ and WRF 2012 4-km data. Preparation of the Project emissions inputs for CAMx is discussed in **Appendix A**.

2.1 Model Inputs and Configuration

Ramboll converted the 2012 CMAQ 2-D and in-line point emissions files from BAAQMD to CAMx area-/point-source emissions files using the CMAQ2CAMx interface program⁵. Seasalt emissions were developed using an emissions processor that integrates published sea spray flux algorithms to estimate sea salt PM emissions for input to CAMx. The CAMx sea salt emissions were then merged with area emissions files. We projected CAMx emissions data to 2035 using county, pollutant and source category-specific growth factors derived from ARB's California Emissions Projection Analysis Model (CEPAM) 2016 SIP inventory. CEPAM estimates emissions for a specific year based on growth and control factors. The growth factors account for county-specific economic activity profiles, population forecasts, and other socio/demographic activity. The control factors reflect the effects of adopted emission control rules.

The most commonly used prognostic meteorological models to provide meteorological fields for air quality modeling are the Weather Research and Forecasting (WRF) model (Skamarock et al., 2005) and the Fifth-Generation Mesoscale Model (MM5; Grell et al, 1994). MM5 is a nonhydrostatic, prognostic meteorological model developed in the 1970s by Pennsylvania State University and the National Center for Atmospheric Research (NCAR) and has been widely used for urban- and regional-scale photochemical, fine particulate, and regional haze regulatory modeling studies. However, development of MM5 ceased in 2006, and WRF has become the new standard model used in place of the older MM5 for regulatory air quality applications in the US. Developed jointly by NCAR and the National Center for Environmental Prediction in late 1990s, WRF has been under continuous development, improvement, testing and open peer-review for more than 10 years and used worldwide by hundreds of researchers and practitioners around the globe for a variety of mesoscale studies. BAAQMD adopted WRF version 3.8 for the 2012 simulations. For the current application, the meteorology remains unchanged for the future year simulation and BAAQMD WRF 2012 4-km model outputs were processed using the WRFCAMx⁶ processor to generate the meteorological fields ready for CAMx. The WRF model employs a terrain-following coordinate system defined by pressure, using multiple layers that extend from the surface to 50 millibars (approximately 19 kilometers above ground level [AGL]). A layer averaging scheme is adopted for CAMx simulations to reduce the computational burden. **Table 2-1** presents the mapping from the WRF vertical layer structure to the CAMx vertical layers.

⁴ <http://www.camx.com>

⁵ <http://www.camx.com/download/support-software.aspx>.

⁶ WRFCAMx is available on the CAMx website (<http://www.camx.com/download/support-software.aspx>)

Table 2-1. Vertical layer structure for WRF and CAMx modeling.					
WRF		CAMx			
Layer	Height (m)	Layer	Height (m)	Thickness (m)	Sigma
50	19260	28	19260	2625	0.0000
49	16635				
48	14423				
47	12436	27	12436	1849	0.1339
46	10587				
45	9234				
44	8100	26	8100	960	0.3119
43	7140				
42	6324				
41	5629	25	5629	594	0.4630
40	5034				
39	4524				
38	4086	24	4086	376	0.5806
37	3710				
36	3387				
35	3097	23	3097	261	0.6668
34	2835				
33	2600				
32	2389	22	2389	191	0.7341
31	2198				
30	2028				
29	1873	21	1873	139	0.7863
28	1735				
27	1609				
26	1497	20	1497	102	0.8261
25	1396				
24	1304				
23	1217	19	1304	87	0.8471
22	1133				
21	1052				
20	974	18	1133	81	0.8661
19	899				
18	827				
17	758	17	974	75	0.8840
16	692				
15	628				
14	566	16	758	66	0.9088
13	507				
12	450				
11	398	15	692	64	0.9165
10	348				
9	302				
8	258	14	566	59	0.9312
7	218				
6	180				
5	144	13	507	57	0.9382
4	112				
3	81				
2	52	12	450	53	0.9450
1	25				
0	0				
0	0	11	398	50	0.9513
1	25				
0	0				
0	0	10	348	46	0.9573
1	25				
0	0				
0	0	9	302	44	0.9629
1	25				
0	0				
0	0	8	258	40	0.9682
1	25				
0	0				
0	0	7	218	38	0.9731
1	25				
0	0				
0	0	6	180	36	0.9777
1	25				
0	0				
0	0	5	144	32	0.9821
1	25				
0	0				
0	0	4	112	31	0.9861
1	25				
0	0				
0	0	3	81	29	0.9899
1	25				
0	0				
0	0	2	52	27	0.9935
1	25				
0	0				
0	0	1	25	25	0.9969
1	25				
0	0				
0	0	0	0	0	1.0000

The lateral boundary conditions (BCs) for the 4-km state-wide modeling grid were extracted from a global model simulation for the year 2012. The Model for Ozone and Related Chemical Tracers Version 4 (MOZART-4; Emmons et al., 2010) is a global chemical transport model developed jointly by NCAR, the Geophysical Fluid Dynamics Laboratory, and the Max Planck Institute for Meteorology, and simulates chemistry and transport of tropospheric gases and bulk aerosols. The MOZART-4 simulation with updated meteorological fields derived from the National Aeronautics and Space Administration's Goddard Earth Observing System Model Version 5 (GEOS-5)⁷ were downloaded from the UCAR website⁸ and the MOZART2CAMx processor was used to derive both the boundary and the initial conditions for the modeling. Five days of spin-up periods were used for the 4-km grids to minimize the influence of the initial conditions.

Additional data used in the air quality modeling include ozone column data from the Ozone Monitoring Instrument (OMI) which continues the Total Ozone Mapping Spectrometer (TOMS) record for total ozone and other atmospheric parameters related to ozone chemistry (OMI officially replaced the TOMS ozone column satellite data on January 1, 2006). OMI data are available every 24-hours and are obtained from the TOMS ftp site⁹. The CAMx O3MAP program reads the OMI ozone column txt file data and interpolates to fill gaps and generated gridded daily ozone column input data. The OMI data is used in the CAMx (TUV) radiation models which is a radiative transfer model that develops clear-sky photolysis rate inputs for CAMx. The landuse file was generated with the WRFCAMx processor and modified to remove lakes and set coastal waters with a surf zone width of 50 m, this file was used to update the emissions database and provide more realistic representation of sea salt emissions.

Table 2-2 presents the CAMx configuration used for the modeling in this Project analysis. In the past, the Carbon-Bond IV (CB4) chemical mechanism (Gery et al., 1989) has been predominantly used for the California State Implementation Plan (SIP) SIP modeling. In 1999, however, California Air Resources Board's (CARB's) Reactivity Scientific Advisory Committee recommended switching to the 1999 State-wide Air Pollution Research Center (SAPRC99) chemical mechanism (Carter, 2000) based on a comprehensive review by Stockwell (1999), and SAPRC99 has since been the mechanism of choice for the California SIPs. The 2007 update to the SAPRC chemistry mechanism, called SAPRC07 (Carter, 2010), replaced the dated SAPRC99 mechanism. The version implemented in CAMx is SAPRC07TC, which includes additional model species to explicitly represent selected toxics and reactive organic compounds and uses numerical expressions of rate constants that are compatible with the current chemistry mechanism solver. The partitioning of inorganic aerosol constituents (sulfate, nitrate ammonium and chloride) between gas and aerosol phases is performed using the ISORROPIA module. The SOAP semi-volatile equilibrium scheme performs the organic aerosol-gas partitioning. These processes are described in more detailed in the CAMx user guide.¹⁰

⁷ <http://www.acd.ucar.edu/wrf-chem/mozart.shtml>

⁸ <https://www.acom.ucar.edu/wrf-chem/mozart.shtml>

⁹ <ftp://toms.gsfc.nasa.gov/pub/omi/data/>

¹⁰ http://www.camx.com/files/camxusersguide_v6-50.pdf

Table 2-2. CAMx modeling configuration.

Science Option	Configuration	Notes
Model Code	CAMx v6.5	Released April 2018
Horizontal Grid	4-km 1-way nesting	
O3 and PM 4-km	185 x 185 grid cells	
Vertical Grid	28 vertical layers extending up to ~19 km AGL	Collapsed from 50 WRF/MM5 layers (see Table 3-1)
Initial Conditions	Extracted from the MOZART global model outputs	5-day spin-up for 4-km domain
Boundary Conditions	Extracted from the MOZART global model outputs	Boundary concentration set for 4-km domain extracted using MOZART2CAMx
Photolysis Rate	Photolysis rates lookup table	Derived from satellite measurements and TUV processor
Gas-phase Chemistry	SAPRC07TC	Solved by the Euler Backward Iterative (EBI) solver
Aerosol-phase Chemistry	ISORROPIA (inorganic aerosol) SOAP v2.1 (organic aerosol)	
Meteorological Input Preprocessor	WRFCAMx v4.7	
Advection	Piecewise Parabolic Method (PPM)	
Diffusion	Eddy diffusion algorithm	

2.2 Model Results

The future modeling scenario was simulated using the CAMx source apportionment technology. Both cumulative concentrations from all the sources and the concentrations from Project-specific emissions are derived from a single simulation following the previous section model configuration. The model results of hourly PM_{2.5} concentrations were processed into aggregated metrics that are relevant to health effects.

The metrics relevant to the PM_{2.5} health effects selected in this study are 24-hour and annual average concentrations (see **Appendix C**). **Figure 2-1** shows spatial plots of annual average and a single day episode maximum 24-hour average PM_{2.5} concentrations from the base case. In the base case, the central portion of California shows annual PM_{2.5} concentrations between 10 and 15 µg/m³ with isolated regions in Glenn and Butte county that could reach up to 20 µg/m³. Annual Average concentrations in the Bay Area range between 5 and 10 µg/m³ with isolated areas that could reach up to 15 µg/m³ in Contra Costa, Alameda and Sant Clara counties. Contributions of the Project emissions to annual average PM_{2.5} are 0.022 µg/m³ at the most impacted area and represents only a 0.23 percent increase over the base case concentrations at that location. Contributions to the maximum 24-hour average

PM_{2.5} are 0.074 µg/m³ at the most impacted area and represent only a 0.35 percent increase over the base case concentrations at that location. **Figure 2-2** presents increases in quarterly average and maximum 24-hour average PM_{2.5} due to the Project by PM_{2.5} component at the grid cell of maximum impact. It confirms that the PM_{2.5} increases due to the Project are mostly due to primary PM components (referred to in the chart as primary organic aerosol [POA], elemental carbon [EC] and other primary PM). The figure also shows that nitrate is the most important contributor to the secondary PM_{2.5}.

Figure 2-1. Results of the 4 km PM_{2.5} Modeling Domain

**PM_{2.5} Concentrations from the Base Case Scenario (left panels);
Increases in PM_{2.5} due to the Project (center and right panels);
Annual Averages (top panels);
Maximum 24-hour Averages (bottom panels)**

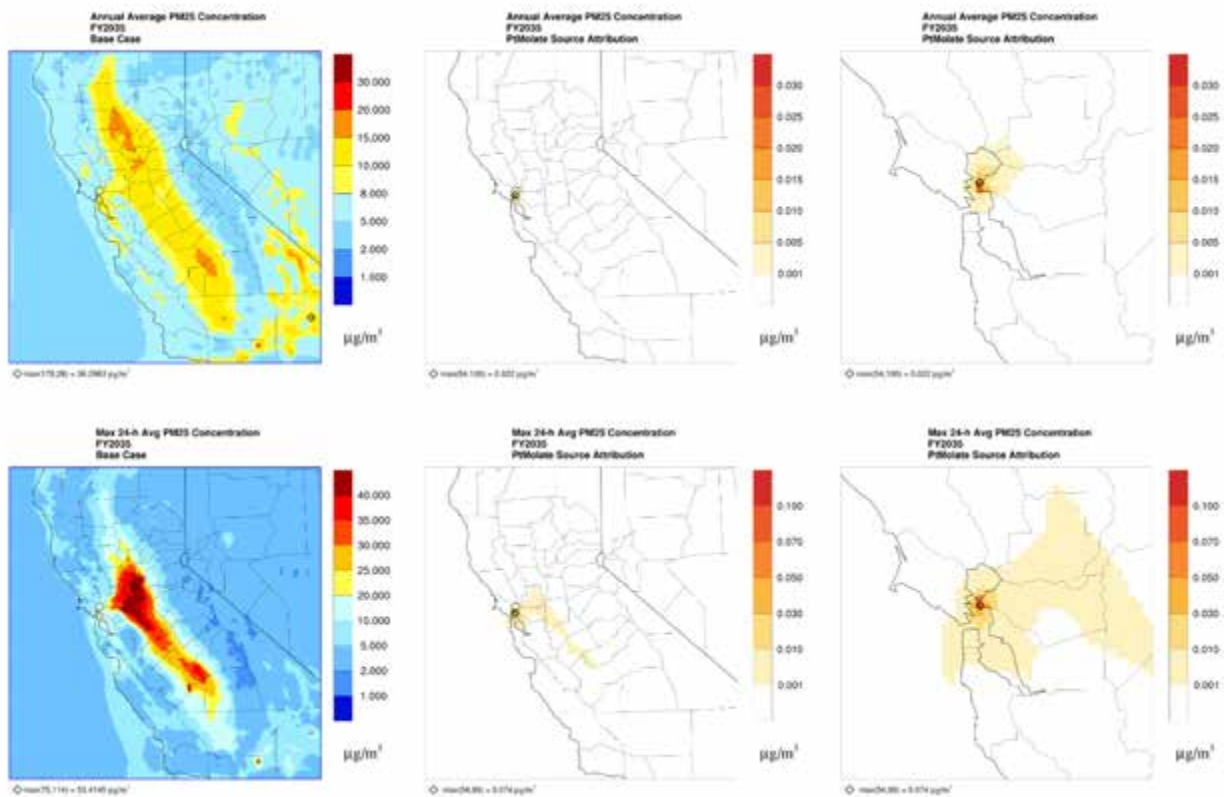
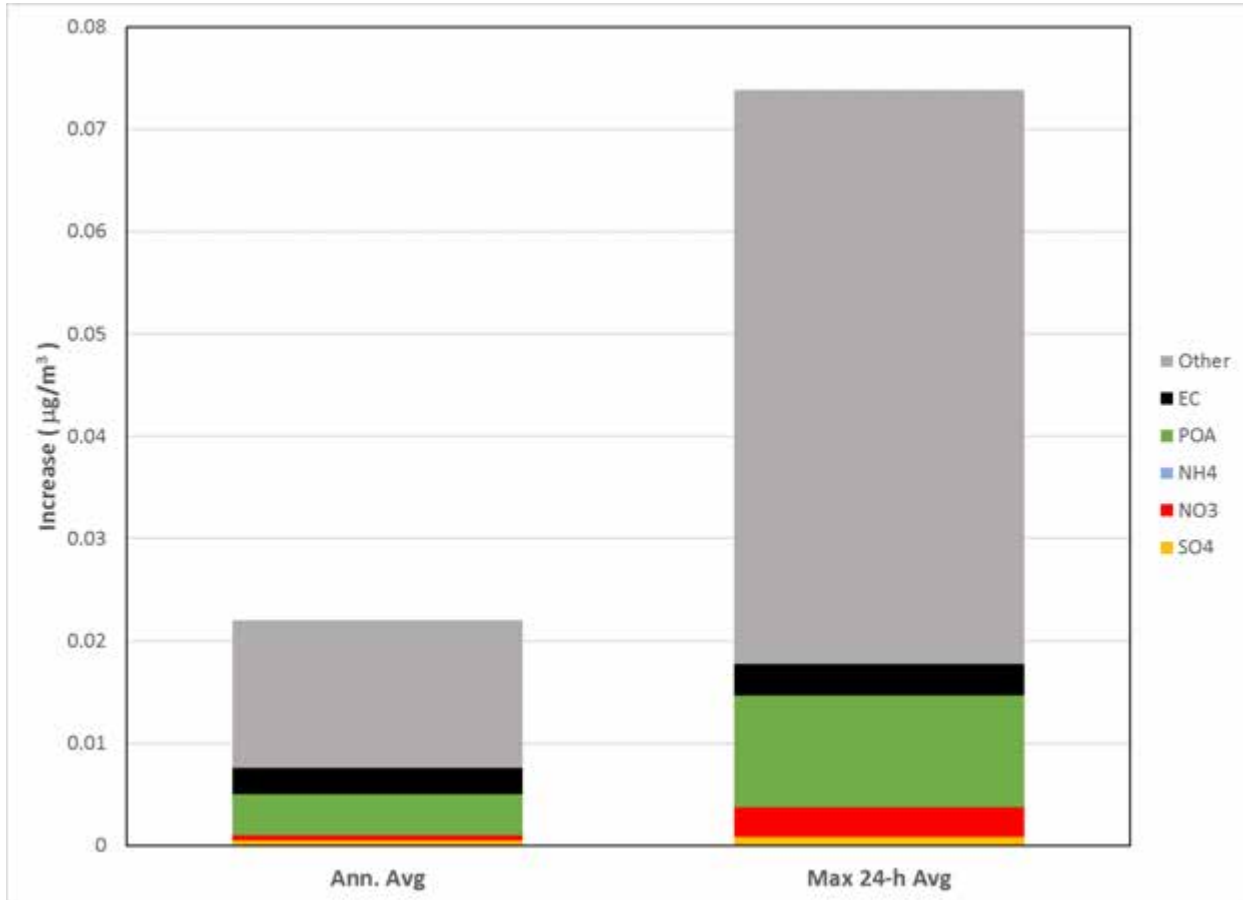


Figure 2-2. Increases in Annual Average and Episode Maximum 24-hour Average PM_{2.5} Concentrations due to the Project by PM_{2.5} Component: fine particulate sulfate (SO₄), nitrate (NO₃), ammonium (NH₄), primary organic aerosol (POA), elemental carbon (EC), and other primary PM (Other); Where the Maximum Impact of the Project's Emissions Occurred



The metrics relevant to the ozone health effects selected in this study are consistent with the ozone NAAQS (see **Appendix C**). The model provides hourly concentrations that are further post-processed to produce maximum daily average 8-hour (MDA8) ozone concentrations for each day. **Figure 2-3** displays spatial plots of the annual average MDA8 ozone for the 2035 emissions scenario and the corresponding annual average MDA8 increases due to the Projects emissions. In the 2035 base case emissions scenario, modeling results show a gradient with lower MDA8 concentrations in the range of 30 to 40 ppb in the western side of the domain and larger concentrations in the range of 45 to 50 ppb in the eastern side of the domain with the largest concentrations of 53 ppb in San Bernardino County. Concentrations in the central valley range between 40 to 45 ppb. MDA8 ozone concentrations in counties around the Bay area are generally low and range between 30 to 37.5 ppb. The maximum impact to the annual average MDA8 ozone concentrations due to the Project is 0.004 ppb and occurs in western Contra Costa County where it represents only a 0.014 percent increase over the base case concentrations.

Figure 2-4 displays MDA8 ozone for the base case and increases in MDA8 ozone due to the project on June 16, the day that the Project has the highest ozone contribution for the entire modeling year. The highest MDA8 ozone contribution due to the Project is 0.039 ppb (Figure 2-4, right) and occurs west of Contra Costa County where it represents a 0.07 percent increase over the base case concentrations on that day.

Figure 2-3. Annual Average MDA8 Ozone Concentrations from the Base Case Scenario (left) and Increases in Annual Average MDA8 Ozone Concentrations due to the Project (right) for the Annual Modeling of the 2035 Emissions Scenario



Figure 2-4. MDA8 Ozone Concentrations from the Base Case Scenario (left) and Increases in MDA8 Ozone Concentrations due to the Project (right) on June 16, the Day with the Highest Project Ozone Contributions for the Annual Modeling of the 2035 Emissions Scenario



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APPENDIX C

BENMAP AND HEALTH EFFECTS POINT MOLATE RICHMOND, CALIFORNIA

1. HEALTH EFFECTS ANALYSIS

The potential health effects of ozone and particulate matter less than 2.5 microns in diameter (PM_{2.5}) concentrations due to the Project's emissions were estimated using the Environmental Benefits Mapping and Analysis Program (BenMAP), Community Edition v1.5 (March 2019).¹ BenMAP, originally developed by the United States Environmental Protection Agency (USEPA), is a powerful and flexible tool that helps users estimate human health effects and economic benefits resulted from changes in air quality. BenMAP outputs include PM- and ozone-related health endpoints such as premature mortality, hospital admissions, and emergency room visits. BenMAP uses the following simplified formula to relate changes in ambient air pollution to certain health endpoints (USEPA, 2018)²:

$$\text{Health Effect} = \text{Air Quality Change} \times \text{Health Effect Estimate} \times \text{Exposed Population} \times \text{Background Health Incidence}$$

- Air Quality Change - The difference between the starting air pollution level (the base) and the air pollution level after some change, such as a new source.
- Health Effect Estimate - An estimate of the percentage change in an adverse health effect due to a one unit change in ambient air pollution. Effect estimates, also referred to as concentration-response (C-R) functions, are obtained from epidemiological studies.
- Exposed Population - The number of people affected by the air quality change. The government census office is a good source for this information. This analysis uses data from PopGrid, which is an add-on program to BenMAP that allocates the block-level U.S. Census population to a user-defined grid.³
- Background Health Incidence - An estimate of the average number of people that die (or suffer from some adverse health effect) in a given population over a given period of time. For example, the health incidence rate might be the probability that a person will die in a given year. Health incidence rates and other health data are typically collected by the government as well as the World Health Organization.

The health endpoints analyzed in this study and the BenMAP results are presented in Section 2 of this appendix.

2. HEALTH EFFECTS ANALYSIS RESULTS

This section presents the health outcome of the Project emissions on the population in the Northern California model domain, estimated by the BenMAP model. The Comprehensive Air Quality Model with extensions (CAMx) modeling results (**Appendix B**) are processed to generate aggregated daily averages PM_{2.5} and maximum daily 8-hour ozone appropriate for various health endpoints. The CAMx simulation results from the full year (January to December) are used to estimate the health effects of PM_{2.5} and ozone. BenMAP translates increases in the pollutant concentration due to the Project emissions to changes in the incidence rate for each health effect using a C-R function derived from previously published epidemiological studies. BenMAP often provides multiple C-R functions based on

¹ <http://www.epa.gov/air/benmap/>

² The common function used for calculating health effects is the following log-linear function: Health Effect = Background Health Incidence x [1 - exponential (Health Effect Estimate * Air Quality Change)] x Exposed Population

³ <https://www.epa.gov/benmap/benmap-community-edition>

different epidemiological studies for a given health endpoint. We used the C-R functions used in past USEPA regulatory assessments when evaluating health effects, together with a more refined population data. This analysis uses population data from PopGrid, which allocates the census population to each modeled 4x4 kilometer (km) grid cell.

The population used for both the quantified health effects and the calculation of background health incidence presented here is for the future year 2035⁴, for consistency with the CAMx model year. This is conservative compared to the Project build out year of 2028.

2.1 PM_{2.5} Health Effects

Although there are a large number of potential health endpoints that could be included in the analysis as described above, we selected the key health endpoints that have been the focus of recent United States Environmental Protection Agency (USEPA) risk assessments (e.g., USEPA, 2010; USEPA, 2014). For example, the USEPA notes that health endpoints were selected based on consideration of at-risk populations (e.g. asthmatics), endpoints that have public health significance, and endpoints for which information is sufficient to support a quantitative concentration-response relationship (USEPA, 2014).

The health endpoints and associated C-R functions examined in this study are presented in **Table 2-1**. Each C-R function is based on a certain age range for the given health endpoint depending on the underlying epidemiological study on which it is based. Increases in the BenMAP-estimated health effect incidences and percent of background health incidence due to the Project emissions are presented in **Table 2-2**. These values reflect the total health effects across the Northern California model domain.

Table 2-1. Summary of PM_{2.5} Health Endpoints Used in this Study					
Health Endpoint	Age Range	Daily Metric	Seasonal Metric	Annual Metric	C-R Function Selected
Emergency Room Visits, Asthma	0-99	24-hr mean			Mar et al., 2010 ¹
Mortality, All Cause	30-99	24-hr mean	Quarterly mean	Mean	Krewski et al., 2009 ¹
Hospital Admissions, Asthma	0-64	24-hr mean	-	-	Sheppard, 2003 ¹
Hospital Admissions, All Cardiovascular (less Myocardial Infarctions)	65-99	24-hr mean	-	-	Bell, 2008 ¹
Hospital Admissions, All Respiratory	65-99	24-hr mean	-	-	Zanobetti et al., 2009 ¹
Acute Myocardial Infarction, Nonfatal	18-24	24-hr mean	-	-	Zanobetti et al., 2009 ¹
Acute Myocardial Infarction, Nonfatal	25-44	24-hr mean	-	-	
Acute Myocardial Infarction, Nonfatal	45-54	24-hr mean	-	-	

⁴ For background incidence rates, BenMAP projects likely mortality rates for future years, but for other health effects, incidence rates are based on population changes only and may not reflect rates for future years.

Table 2-1. Summary of PM_{2.5} Health Endpoints Used in this Study

Health Endpoint	Age Range	Daily Metric	Seasonal Metric	Annual Metric	C-R Function Selected
Acute Myocardial Infarction, Nonfatal	55-64	24-hr mean	-	-	
Acute Myocardial Infarction, Nonfatal	65-99	24-hr mean	-	-	

¹ C-R functions available in BenMAP (USEPA, 2018)

The results show that the highest health effect is for all-cause mortality, with an estimated mean increased incidence of 0.43 deaths per year due to the project emissions. Smaller mean increased incidences were estimated for other relevant PM_{2.5}-related health effects: 0.21 increase in incidence of asthma related emergency room visits, 0.08 increase in incidence of respiratory hospital admissions, and 0.03 increase in incidence of cardiovascular hospital admissions.

It should be noted, however, that the estimated increased incidence in those health effects are quite minor compared to the background health incidence values (shown in **Table 2-2** as percent of Background Health Incidence). For example, for mortality, the increase of 0.43 deaths per year due to project emissions represents 0.0002% of the total all-cause mortality for people ages 30 to 99.

Table 2-2. BenMAP-Estimated Mean PM_{2.5} Health Effects of the Project Emissions Across the Northern California Model Domain¹

Health Endpoint ²	Incidences (Mean)	Percent of Background Health Incidence (%)
Emergency Room Visits, Asthma [0-99]	0.21	0.0002%
Mortality, All Cause [30-99]	0.43	0.0002%
Hospital Admissions, Asthma [0-64]	0.01	0.0001%
Hospital Admissions, All Cardiovascular (less Myocardial Infarctions) [65-99]	0.03	0.00002%
Hospital Admissions, All Respiratory [65-99]	0.08	0.00006%
Acute Myocardial Infarction, Nonfatal [18-24]	0.00002	0.00006%
Acute Myocardial Infarction, Nonfatal [25-44]	0.001	0.00006%
Acute Myocardial Infarction, Nonfatal [45-54]	0.003	0.00006%
Acute Myocardial Infarction, Nonfatal [55-64]	0.004	0.00006%
Acute Myocardial Infarction, Nonfatal [65-99]	0.02	0.00006%

¹ Health effects are shown terms of incidences of each health endpoint and how it compares to the base (2035 base year health effect incidences) values.

² Affected age ranges are shown in square brackets.

2.2 Ozone Health Effects

As noted above, although a larger number of health endpoints could be evaluated, we selected the health endpoints based on recent USEPA risk assessments (USEPA, 2010; USEPA, 2014). The health endpoints and associated C-R functions examined in this study are presented in **Table 2-3**. Each C-R function is associated with a certain age range for the given health endpoint depending on the epidemiological study on which it is based. Increases in the BenMAP-estimated health effect incidences and percent of background health incidence due to the Project emissions are presented in **Table 2-4**. These values reflect the total health effects across the Northern California model domain.

Table 2-3. Summary of Ozone Health Endpoints Used in this Study.					
Health Endpoint	Age Range	Daily Metric	Seasonal Metric	Annual Metric	C-R Function Selected
Hospital Admissions, All Respiratory	65 - 99	MDA8	-	-	Katsouyanni et al., 2009 ¹
Mortality, Non-Accidental	0 - 99	MDA8	-	-	Smith et al., 2009 ¹
Emergency Room Visits, Asthma	0 - 17	MDA8	-	-	Mar and Koenig, 2009 ¹
Emergency Room Visits, Asthma	18 - 99	MDA8	-	-	Mar and Koenig, 2009 ¹

¹ C-R function available in BenMAP (USEPA, 2018)

For this project, asthma related emergency room visits are associated with the highest health effects due to the project emissions in the Northern California domain (0.45 increase for adults ages 18 to 99 and 0.30 increase for children ages 0 to 17). Hospital admissions due to respiratory issues for adults age 65-99 and non-accidental mortality have lower incidence increases (0.06 and 0.03 respectively).

It should be noted, however, that the estimated increases in those health effect incidences are quite minor compared to the background health incidence (shown in **Table 2-4** as percent of Background Health Incidence). For example, the increase in asthma emergency room visits represents 0.0008% of the total asthma-related emergency room visits for children.

Table 2-4. BenMAP-Estimated Mean Ozone Health Effects of the Project Emissions Across the Northern California Model Domain¹		
Health Endpoint²	Incidences (Mean)	Percent of Background Health Incidence (%)
Hospital Admissions, All Respiratory [65-99]	0.06	0.00004%
Mortality, Non-Accidental [0-99]	0.03	0.00002%
Emergency Room Visits, Asthma [0-17]	0.30	0.0008%
Emergency Room Visits, Asthma [18-99]	0.45	0.0006%

¹ Health effects are shown terms of incidences of each health endpoint and how it compares to the base (2035 base year health effect incidences) values.

² Affected age ranges are shown in square brackets.

2.3 Conclusion

The PM_{2.5} and ozone concentration changes modeled by CAMx were converted to health effects on various health endpoints including premature mortality, hospitalizations, and emergency room visits, using the BenMAP health effects assessment model and health endpoints typically used in past USEPA regulatory assessments. Estimated changes in the health effect incidences are presented across the grids in the Northern California model domain. Across the board, the estimated increases in those health effect incidences are quite minor compared to the background health incidence values with the largest PM_{2.5} health effect (all-cause mortality) representing only 0.0002% of the total of all deaths, and the largest health effect for ozone (asthma related emergency room visits by adults) representing 0.0006% of all emergency room visits. For the PM_{2.5}-related health endpoints, the health effect on mortality is the highest (Incidence = 0.43). For ozone-related health endpoints, asthma related emergency room visits are most affected (Incidence = 0.45 for adults ages 18 to 99 and Incidence = 0.30 for children ages 0 to 17). Other health effect incidences are lower. When taken into context, the small increase in incidences and the very small percent of the number of background incidences indicate that these health effects are negligible in a developed, urban environment.

Health effects presented above conservatively utilize combined operational emissions at full Project buildout together with average daily construction emissions. In reality, any overlapping years of construction and operation would have lower operational emissions. Additionally, operational emissions reflect the higher of the two design alternatives being considered (the residential heavy option), and conservatively utilize the first year of potential residency (year 2024) for emission factors, while full Project build out is expected in year 2028.

Uncertainty

The approach and methodology of this analysis ensures that the uncertainty is of a conservative nature. In addition to the conservative assumptions built into the emissions noted above, there are a number of assumptions built into the application of C-R functions in BenMAP that may lead to an overestimation of health effects. For example, for all-cause mortality health effects from PM_{2.5}, these estimates are based on a single epidemiological study that found an association between PM_{2.5} concentrations and mortality. While similar studies suggest that such an association exists, there remains uncertainty regarding a clear causal link. This uncertainty stems from the limitations of epidemiological studies, such as inadequate exposure estimates and the inability to control for many factors that could explain the association between PM_{2.5} and mortality such as lifestyle factors like smoking. Several reviews have evaluated the scientific evidence of health effects from specific particulate components (e.g., Rohr and Wyzga 2012; Lippmann and Chen, 2009; Kelly and Fussell, 2007). These reviews indicate that the evidence is strongest for combustion-derived components of PM including elemental carbon (EC), organic carbon (OC) and various metals (e.g., nickel and vanadium), however, there is still no definitive data that points to any particular component of PM as being more toxic than other components. The USEPA has also stated that results from various studies have shown the importance of considering particle size, composition, and particle source in determining the health effects of PM (USEPA, 2009). Further, the USEPA (2009) found that studies have reported that particles from industrial sources and from coal combustion appear to be the most significant contributors to PM-related mortality, consistent with the findings by Rohr and Wyzga (2012) and others. This is particularly important to note here, as a large portion of PM emissions generated from the Project are from entrained roadway dust (see Appendix A), and not from combustion. Therefore, because they do not consider the relative toxicity of PM components, the results presented here are conservative.

For both the PM_{2.5} and ozone health effects calculated, each of the pollutants may be a confounder of the other. Thus, while the C-R functions are from studies that evaluated the effects for each pollutant individually, both air pollutants could contribute to the health effect outcomes evaluated, and thus the overall impacts may be overstated.

Another uncertainty highlighted by the USEPA (2012) that applies to potential health effects from both PM_{2.5} and ozone, is the assumption of a log-linear response between exposure and health effects, without consideration for a threshold below which effects may not be measurable. The issue of a threshold for PM_{2.5} and ozone is highly debatable and can have significant implications for health effects analyses as it requires consideration of current air pollution levels and calculating effects only for areas that exceed threshold levels. Without consideration of a threshold, any incremental contribution to existing ambient air pollution levels, whether below or above the applicable threshold for a given criteria pollutant, is assumed to adversely affect health. Although the USEPA traditionally does not consider thresholds in its cost-benefit analyses, the NAAQS itself is a health-based threshold level that the USEPA has developed based on evaluating the most current evidence of health effects.

As noted above, the health effects estimation using this method presumes that effects seen at large concentration differences can be linearly scaled down to (i.e., correspond to) small increases in concentration, with no consideration of potential thresholds below which health effects may not occur. This methodology of linearly scaling health effects is broadly accepted for use in regulatory evaluations and is considered as being health protective (USEPA, 2010), but potentially overstates the potential effects. In summary, health effects presented in this report are conservatively estimated, and the actual effects may be zero.

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