

**Appendix A:
Air Quality, Greenhouse Gas Emissions Supporting Information**

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Appendix A: Air Quality Modeling and Assumptions

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Adelanto Quick n' Clean CalEEMod Notes

- Note 1. Land uses and sizes for the project are drawn from project applicant information and correspondence as well as the "Overall Site Plans", dated March 3, 2021, and the "CUP Set", dated June 8, 2022. Land uses represent the following:
- Parking > Parking Lot > 78.65 x 1000sqft = 78,653 square feet of paved parking and drive area on project site plans, including interior roadways across the whole 8.3-acre site.
- Retail > Automobile Care Center > 4.55 x 1000sqft = The 4,552-square foot Quick n Clean tunnel structure.
- Recreation > City Park > 0.50 x Acre = The 0.5-acre of landscaping on-site.
- Note 2. Project construction would begin in June 2023 and occur over 7 months. Site preparation is anticipated to occur over 14 days, grading over 30 days, building construction over 105 days, paving over 30 days, and architectural coating over 30 days. Construction is anticipated to occur 5 days a week. As these durations account for all calendar days, the CalEEMod default construction schedule was adjusted to reflect these durations but takes into account the application of 5 workdays per week.
- Note 3. The proposed project would be required to comply with Mojave Desert Air Quality Management District (MDAQMD) Rules 403 and 403.2 which would require the owner or operator of any construction source to use period watering for short-term stabilization of disturbed surfaces to minimize visible fugitive dust emissions.
- Note 4. According to the Traffic Analysis¹ prepared for the proposed project, an estimated 776 one-way daily vehicle trips would be generated by the project. Therefore, the trip generation rates were adjusted to reflect vehicle trips per 1,000 square feet of the "Automobile Care Center" land use. Because the "Automobile Care Center" land use totals 4,552 square feet and the model's input for daily vehicle trips are per 1,000 square feet of land use, the 776 daily one-way vehicle trips were divided by 4.55 to retrieve a daily vehicle trip generation rate of 170.55 vehicle trips per 1,000 square feet of the "Automobile Care Center" land use.
- Note 5. According to the Traffic Analysis, the proposed project would generate 776 one-way vehicle trips daily. According to the client-provided information dated July 9, 2020, the project would have 5 to 7 employees, each generating 2 on-way vehicle trips daily. Therefore, assuming 5 employees during project operation, the estimated 776 daily trips minus 10 employee vehicle trips would result in up to 766 one-way daily customer vehicle trips, or 383 daily customers. For a conservative analysis, the proposed project is assumed to operate 365 days per year, resulting in 139,795 annual customers.
- According to the International Carwash Association's 2018 study Water Use, Evaporation and Carryout: Conveyor Car Washes,² an average of 30 gallons of water is used per vehicle at facilities in the study. Because the City of Adelanto does not have any regulations requiring full-service car washes to have water recycling systems, the proposed project is assumed to not have one for a conservative estimate. Therefore, 30 gallons of water use for each of the estimated 139,795 annual customers would result in an estimated 4,193,850 gallons of water used per year. Therefore, the Automobile Care Center land use's default outdoor water consumption estimate in CalEEMod was updated to reflect this information.

¹ Urban Crossroads. 2022. Quick N Clean Car Wash Traffic Analysis. July 22.

² Brown, Chris. 2018. Water Use, Evaporation and Carryout in Professional Car Washes.

Adelanto Quick n' Clean Emissions Summary

Proposed Project Maximum Daily Construction Emissions

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer
 CalEEMod Run: Summer Date: 8/8/2022 3:08 PM
 Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter
 CalEEMod Run: Winter Date: 8/8/2022 3:10 PM

Construction Season	Maximum Pounds per Day						
	VOC	NO _x	CO	SO _x	PM ₁₀ (Total)	PM _{2.5} (Total)	CO ₂ e
Summer 2023	7.5038	14.4862	15.7361	0.0315	3.8741	2.1193	2,990.21
Winter 2023	7.5020	14.4872	15.5372	0.0312	3.8741	2.1193	2,960.41
Maximum Daily Emission Rate	7.50	14.49	15.74	0.03	3.87	2.12	2,960.41
MDAQMD Significance Thresholds	137	137	548	137	82	65	548,000
Does Project Exceed Threshold?	No	No	No	No	No	No	No

Proposed Project Maximum Daily Operational Emissions

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer
 CalEEMod Run: Summer Date: 8/8/2022 3:08 PM
 Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter
 CalEEMod Run: Winter Date: 8/8/2022 3:10 PM
 Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual
 CalEEMod Run: Annual Date: 8/8/2022 3:07 PM

Emissions Source	Season	Maximum Pounds per Day						
		VOC	NO _x	CO	SO _x	PM ₁₀ (Total)	PM _{2.5} (Total)	CO ₂ e
Area	Summer	0.1711	0.0001	0.0086	0.0000	0.0000	0.0000	0.0195
Energy	Summer	0.0044	0.0395	0.0332	0.0002	0.0030	0.0030	47.7166
Mobile	Summer	2.6705	3.5434	24.6195	0.0510	4.8338	1.3199	5,284.2113
Waste	Summer	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	52.9139
Water	Summer	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	66.8145
Total	Summer	2.8460	3.5830	24.6613	0.0512	4.8368	1.3229	5,451.6758
Area	Winter	0.1711	0.0001	0.0086	0.0000	0.0000	0.0000	0.0195
Energy	Winter	0.0044	0.0395	0.0332	0.0002	0.0030	0.0030	47.7166
Mobile	Winter	2.3145	3.7525	22.0230	0.0473	4.8338	1.3200	4,912.0271
Waste	Winter	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	52.9139
Water	Winter	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	66.8145
Total	Winter	2.4900	3.7921	22.0648	0.0475	4.8368	1.3230	5,079.4916
Maximum Daily Emission Rate		2.85	3.79	24.66	0.05	4.84	1.32	5,451.68
MDAQMD Significance Thresholds		137	137	548	137	82	65	548,000
Does Project Exceed Threshold?		No	No	No	No	No	No	No

Note: Water and waste source emissions are only provided in the annual CalEEMod output file. Therefore, water and waste emission estimates are multiplied by 2,000 pounds per ton (or 2,204.62 pounds per metric ton) and divide by 365 days per year.

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Adelanto Quick n Clean
San Bernardino-Mojave Desert County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	78.65	1000sqft	1.81	78,653.00	0
City Park	0.50	Acre	0.50	21,789.00	0
Automobile Care Center	4.55	1000sqft	0.10	4,552.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Note 1
- Construction Phase - Note 2
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Vehicle Trips - Note 4
- Consumer Products -
- Appendix A
- Area Coating -

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use -

Water And Wastewater - Note 5

Solid Waste -

Construction Off-road Equipment Mitigation - Note 3

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	220.00	75.00
tblConstructionPhase	NumDays	6.00	22.00
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	3.00	10.00
tblLandUse	LandUseSquareFeet	78,650.00	78,653.00
tblLandUse	LandUseSquareFeet	21,780.00	21,789.00
tblLandUse	LandUseSquareFeet	4,550.00	4,552.00
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PR_TP	21.00	100.00
tblVehicleTrips	ST_TR	23.72	170.55
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	11.88	170.55
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	23.72	170.55
tblVehicleTrips	WD_TR	0.78	0.00
tblWater	OutdoorWaterUseRate	262,364.89	4,193,850.00

2.0 Emissions Summary

2.1 Overall Construction

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	0.1865	0.8791	0.8879	1.7800e-003	0.1068	0.0382	0.1449	0.0442	0.0361	0.0803	0.0000	153.0587	153.0587	0.0309	2.1100e-003	154.4611
Maximum	0.1865	0.8791	0.8879	1.7800e-003	0.1068	0.0382	0.1449	0.0442	0.0361	0.0803	0.0000	153.0587	153.0587	0.0309	2.1100e-003	154.4611

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					
2023	0.1865	0.8791	0.8879	1.7800e-003	0.0595	0.0382	0.0977	0.0230	0.0361	0.0591	0.0000	153.0586	153.0586	0.0309	2.1100e-003	154.4610
Maximum	0.1865	0.8791	0.8879	1.7800e-003	0.0595	0.0382	0.0977	0.0230	0.0361	0.0591	0.0000	153.0586	153.0586	0.0309	2.1100e-003	154.4610

	ROG	NOx	CO	SO2	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	44.24	0.00	32.58	47.99	0.00	26.40	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	6-1-2023	8-31-2023	0.5258	0.5258
2	9-1-2023	9-30-2023	0.1736	0.1736

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Highest	0.5258	0.5258
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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	0.0312	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-003	1.5000e-003	0.0000	0.0000	1.5900e-003
Energy	7.9000e-004	7.2100e-003	6.0600e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	20.7436	20.7436	1.2400e-003	2.8000e-004	20.8568
Mobile	0.4171	0.6974	4.1751	8.7300e-003	0.8551	8.2600e-003	0.8633	0.2284	7.7500e-003	0.2362	0.0000	807.9829	807.9829	0.0504	0.0432	822.1256
Waste						0.0000	0.0000		0.0000	0.0000	3.5361	0.0000	3.5361	0.2090	0.0000	8.7605
Water						0.0000	0.0000		0.0000	0.0000	0.1358	10.4255	10.5613	0.0148	4.4000e-004	11.0619
Total	0.4491	0.7046	4.1819	8.7700e-003	0.8551	8.8100e-003	0.8639	0.2284	8.3000e-003	0.2367	3.6719	839.1535	842.8254	0.2754	0.0440	862.8065

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	0.0312	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-003	1.5000e-003	0.0000	0.0000	1.5900e-003

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Energy	7.9000e-004	7.2100e-003	6.0600e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	20.7436	20.7436	1.2400e-003	2.8000e-004	20.8568
Mobile	0.4171	0.6974	4.1751	8.7300e-003	0.8551	8.2600e-003	0.8633	0.2284	7.7500e-003	0.2362	0.0000	807.9829	807.9829	0.0504	0.0432	822.1256
Waste						0.0000	0.0000		0.0000	0.0000	3.5361	0.0000	3.5361	0.2090	0.0000	8.7605
Water						0.0000	0.0000		0.0000	0.0000	0.1358	10.4255	10.5613	0.0148	4.4000e-004	11.0619
Total	0.4491	0.7046	4.1819	8.7700e-003	0.8551	8.8100e-003	0.8639	0.2284	8.3000e-003	0.2367	3.6719	839.1535	842.8254	0.2754	0.0440	862.8065

	ROG	NOx	CO	SO2	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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/14/2023	5	10	
2	Grading	Grading	6/15/2023	7/14/2023	5	22	
3	Building Construction	Building Construction	7/15/2023	10/27/2023	5	75	
4	Paving	Paving	10/28/2023	11/28/2023	5	22	
5	Architectural Coating	Architectural Coating	11/29/2023	12/28/2023	5	22	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 22

Acres of Paving: 1.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,830; Non-Residential Outdoor: 2,277; Striped Parking Area: 4,719

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	44.00	17.00	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	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Exposed Area

3.2 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					7.9500e-003	0.0000	7.9500e-003	8.6000e-004	0.0000	8.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5100e-003	0.0714	0.0489	1.2000e-004		2.7100e-003	2.7100e-003		2.4900e-003	2.4900e-003	0.0000	10.7722	10.7722	3.4800e-003	0.0000	10.8593
Total	6.5100e-003	0.0714	0.0489	1.2000e-004	7.9500e-003	2.7100e-003	0.0107	8.6000e-004	2.4900e-003	3.3500e-003	0.0000	10.7722	10.7722	3.4800e-003	0.0000	10.8593

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	1.2000e-004	8.0000e-005	1.0100e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2504	0.2504	1.0000e-005	1.0000e-005	0.2528
Total	1.2000e-004	8.0000e-005	1.0100e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2504	0.2504	1.0000e-005	1.0000e-005	0.2528

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					3.5800e-003	0.0000	3.5800e-003	3.9000e-004	0.0000	3.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5100e-003	0.0714	0.0489	1.2000e-004		2.7100e-003	2.7100e-003		2.4900e-003	2.4900e-003	0.0000	10.7722	10.7722	3.4800e-003	0.0000	10.8593
Total	6.5100e-003	0.0714	0.0489	1.2000e-004	3.5800e-003	2.7100e-003	6.2900e-003	3.9000e-004	2.4900e-003	2.8800e-003	0.0000	10.7722	10.7722	3.4800e-003	0.0000	10.8593

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	1.2000e-004	8.0000e-005	1.0100e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2504	0.2504	1.0000e-005	1.0000e-005	0.2528
Total	1.2000e-004	8.0000e-005	1.0100e-003	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2504	0.2504	1.0000e-005	1.0000e-005	0.2528

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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					0.0779	0.0000	0.0779	0.0377	0.0000	0.0377	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1591	0.0957	2.3000e-004		6.6500e-003	6.6500e-003		6.1200e-003	6.1200e-003	0.0000	19.9143	19.9143	6.4400e-003	0.0000	20.0753
Total	0.0147	0.1591	0.0957	2.3000e-004	0.0779	6.6500e-003	0.0846	0.0377	6.1200e-003	0.0438	0.0000	19.9143	19.9143	6.4400e-003	0.0000	20.0753

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	3.2000e-004	2.3000e-004	2.7800e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6886	0.6886	2.0000e-005	2.0000e-005	0.6952
Total	3.2000e-004	2.3000e-004	2.7800e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6886	0.6886	2.0000e-005	2.0000e-005	0.6952

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					0.0351	0.0000	0.0351	0.0170	0.0000	0.0170	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1591	0.0957	2.3000e-004		6.6500e-003	6.6500e-003		6.1200e-003	6.1200e-003	0.0000	19.9143	19.9143	6.4400e-003	0.0000	20.0753
Total	0.0147	0.1591	0.0957	2.3000e-004	0.0351	6.6500e-003	0.0417	0.0170	6.1200e-003	0.0231	0.0000	19.9143	19.9143	6.4400e-003	0.0000	20.0753

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	3.2000e-004	2.3000e-004	2.7800e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6886	0.6886	2.0000e-005	2.0000e-005	0.6952
Total	3.2000e-004	2.3000e-004	2.7800e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6886	0.6886	2.0000e-005	2.0000e-005	0.6952

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.0643	0.5109	0.5330	9.4000e-004		0.0230	0.0230		0.0221	0.0221	0.0000	77.8883	77.8883	0.0147	0.0000	78.2565
Total	0.0643	0.5109	0.5330	9.4000e-004		0.0230	0.0230		0.0221	0.0221	0.0000	77.8883	77.8883	0.0147	0.0000	78.2565

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	0.0244	9.6700e-003	1.2000e-004	4.2500e-003	1.8000e-004	4.4300e-003	1.2300e-003	1.7000e-004	1.4000e-003	0.0000	11.6908	11.6908	3.0000e-004	1.7300e-003	12.2131
Worker	4.8000e-003	3.3800e-003	0.0416	1.1000e-004	0.0133	7.0000e-005	0.0134	3.5300e-003	6.0000e-005	3.6000e-003	0.0000	10.3289	10.3289	3.3000e-004	3.1000e-004	10.4283
Total	5.5300e-003	0.0278	0.0513	2.3000e-004	0.0176	2.5000e-004	0.0178	4.7600e-003	2.3000e-004	5.0000e-003	0.0000	22.0197	22.0197	6.3000e-004	2.0400e-003	22.6414

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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	0.0643	0.5109	0.5330	9.4000e-004		0.0230	0.0230		0.0221	0.0221	0.0000	77.8882	77.8882	0.0147	0.0000	78.2564
Total	0.0643	0.5109	0.5330	9.4000e-004		0.0230	0.0230		0.0221	0.0221	0.0000	77.8882	77.8882	0.0147	0.0000	78.2564

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	0.0244	9.6700e-003	1.2000e-004	4.2500e-003	1.8000e-004	4.4300e-003	1.2300e-003	1.7000e-004	1.4000e-003	0.0000	11.6908	11.6908	3.0000e-004	1.7300e-003	12.2131
Worker	4.8000e-003	3.3800e-003	0.0416	1.1000e-004	0.0133	7.0000e-005	0.0134	3.5300e-003	6.0000e-005	3.6000e-003	0.0000	10.3289	10.3289	3.3000e-004	3.1000e-004	10.4283
Total	5.5300e-003	0.0278	0.0513	2.3000e-004	0.0176	2.5000e-004	0.0178	4.7600e-003	2.3000e-004	5.0000e-003	0.0000	22.0197	22.0197	6.3000e-004	2.0400e-003	22.6414

3.5 Paving - 2023

Unmitigated Construction On-Site

Appendix A

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.6800e-003	0.0947	0.1285	2.0000e-004		4.7700e-003	4.7700e-003		4.4000e-003	4.4000e-003	0.0000	17.0641	17.0641	5.4100e-003	0.0000	17.1993
Paving	2.3700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0121	0.0947	0.1285	2.0000e-004		4.7700e-003	4.7700e-003		4.4000e-003	4.4000e-003	0.0000	17.0641	17.0641	5.4100e-003	0.0000	17.1993

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	4.8000e-004	3.4000e-004	4.1600e-003	1.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0329	1.0329	3.0000e-005	3.0000e-005	1.0428
Total	4.8000e-004	3.4000e-004	4.1600e-003	1.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0329	1.0329	3.0000e-005	3.0000e-005	1.0428

Mitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	9.6800e-003	0.0947	0.1285	2.0000e-004		4.7700e-003	4.7700e-003		4.4000e-003	4.4000e-003	0.0000	17.0641	17.0641	5.4100e-003	0.0000	17.1993
Paving	2.3700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0121	0.0947	0.1285	2.0000e-004		4.7700e-003	4.7700e-003		4.4000e-003	4.4000e-003	0.0000	17.0641	17.0641	5.4100e-003	0.0000	17.1993

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	4.8000e-004	3.4000e-004	4.1600e-003	1.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0329	1.0329	3.0000e-005	3.0000e-005	1.0428
Total	4.8000e-004	3.4000e-004	4.1600e-003	1.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0329	1.0329	3.0000e-005	3.0000e-005	1.0428

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0801					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1100e-003	0.0143	0.0199	3.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	2.8086	2.8086	1.7000e-004	0.0000	2.8128
Total	0.0822	0.0143	0.0199	3.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	2.8086	2.8086	1.7000e-004	0.0000	2.8128

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	2.9000e-004	2.0000e-004	2.5000e-003	1.0000e-005	8.0000e-004	0.0000	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6197	0.6197	2.0000e-005	2.0000e-005	0.6257
Total	2.9000e-004	2.0000e-004	2.5000e-003	1.0000e-005	8.0000e-004	0.0000	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6197	0.6197	2.0000e-005	2.0000e-005	0.6257

Mitigated Construction On-Site

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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					
Archit. Coating	0.0801					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1100e-003	0.0143	0.0199	3.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	2.8086	2.8086	1.7000e-004	0.0000	2.8128
Total	0.0822	0.0143	0.0199	3.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	2.8086	2.8086	1.7000e-004	0.0000	2.8128

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	2.9000e-004	2.0000e-004	2.5000e-003	1.0000e-005	8.0000e-004	0.0000	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6197	0.6197	2.0000e-005	2.0000e-005	0.6257
Total	2.9000e-004	2.0000e-004	2.5000e-003	1.0000e-005	8.0000e-004	0.0000	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6197	0.6197	2.0000e-005	2.0000e-005	0.6257

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4171	0.6974	4.1751	8.7300e-003	0.8551	8.2600e-003	0.8633	0.2284	7.7500e-003	0.2362	0.0000	807.9829	807.9829	0.0504	0.0432	822.1256
Unmitigated	0.4171	0.6974	4.1751	8.7300e-003	0.8551	8.2600e-003	0.8633	0.2284	7.7500e-003	0.2362	0.0000	807.9829	807.9829	0.0504	0.0432	822.1256

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	776.00	776.00	776.00	2,267,063	2,267,063
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	776.00	776.00	776.00	2,267,063	2,267,063

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
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	100	0	0
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	Page BUS	MH
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Automobile Care Center	0.534251	0.055593	0.171990	0.141576	0.027719	0.007281	0.011628	0.017336	0.000569	0.000257	0.025522	0.000954	0.005323
City Park	0.534251	0.055593	0.171990	0.141576	0.027719	0.007281	0.011628	0.017336	0.000569	0.000257	0.025522	0.000954	0.005323
Parking Lot	0.534251	0.055593	0.171990	0.141576	0.027719	0.007281	0.011628	0.017336	0.000569	0.000257	0.025522	0.000954	0.005323

5.0 Energy Detail

Historical Energy Use: N

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	12.8903	12.8903	1.0900e-003	1.3000e-004	12.9568
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	12.8903	12.8903	1.0900e-003	1.3000e-004	12.9568
NaturalGas Mitigated	7.9000e-004	7.2100e-003	6.0600e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	7.8534	7.8534	1.5000e-004	1.4000e-004	7.9000
NaturalGas Unmitigated	7.9000e-004	7.2100e-003	6.0600e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	7.8534	7.8534	1.5000e-004	1.4000e-004	7.9000

5.2 Energy by Land Use - NaturalGas

Unmitigated

Natural Gas Appliance 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
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Land Use	kBTU/yr	tons/yr									MT/yr					
		7.9000e-004	7.2100e-003	6.0600e-003	4.0000e-005	5.5000e-004	5.5000e-004	5.5000e-004	5.5000e-004	5.5000e-004	0.0000	7.8534	7.8534	1.5000e-004	1.4000e-004	7.9000
Automobile Care Center	147166	7.9000e-004	7.2100e-003	6.0600e-003	4.0000e-005	5.5000e-004	5.5000e-004	5.5000e-004	5.5000e-004	5.5000e-004	0.0000	7.8534	7.8534	1.5000e-004	1.4000e-004	7.9000
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	0.0000
Parking Lot	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	0.0000
Total		7.9000e-004	7.2100e-003	6.0600e-003	4.0000e-005	5.5000e-004	5.5000e-004	5.5000e-004	5.5000e-004	5.5000e-004	0.0000	7.8534	7.8534	1.5000e-004	1.4000e-004	7.9000

Mitigated

Land Use	Natural Gas Use	kBTU/yr	tons/yr									MT/yr					
			ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O
Automobile Care Center		147166	7.9000e-004	7.2100e-003	6.0600e-003	4.0000e-005	5.5000e-004	5.5000e-004	5.5000e-004	5.5000e-004	5.5000e-004	0.0000	7.8534	7.8534	1.5000e-004	1.4000e-004	7.9000
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	0.0000
Parking Lot		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	0.0000
Total			7.9000e-004	7.2100e-003	6.0600e-003	4.0000e-005	5.5000e-004	5.5000e-004	5.5000e-004	5.5000e-004	5.5000e-004	0.0000	7.8534	7.8534	1.5000e-004	1.4000e-004	7.9000

5.3 Energy by Land Use - Electricity

Unmitigated

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	45155.8	8.0082	6.8000e-004	8.0000e-005	8.0495
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	27528.5	4.8821	4.1000e-004	5.0000e-005	4.9073
Total		12.8903	1.0900e-003	1.3000e-004	12.9568

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	45155.8	8.0082	6.8000e-004	8.0000e-005	8.0495
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	27528.5	4.8821	4.1000e-004	5.0000e-005	4.9073
Total		12.8903	1.0900e-003	1.3000e-004	12.9568

6.0 Area Detail

6.1 Mitigation Measures Area

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0312	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-003	1.5000e-003	0.0000	0.0000	1.5900e-003
Unmitigated	0.0312	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-003	1.5000e-003	0.0000	0.0000	1.5900e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	8.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0231					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-003	1.5000e-003	0.0000	0.0000	1.5900e-003
Total	0.0312	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-003	1.5000e-003	0.0000	0.0000	1.5900e-003

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	8.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0231					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-003	1.5000e-003	0.0000	0.0000	1.5900e-003
Total	0.0312	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-003	1.5000e-003	0.0000	0.0000	1.5900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	10.5613	0.0148	4.4000e-004	11.0619
Unmitigated	10.5613	0.0148	4.4000e-004	11.0619

7.2 Water by Land Use

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.428069 / 4.19385	9.3875	0.0147	4.2000e-004	9.8821
City Park	0 / 0.595741	1.1738	1.0000e-004	1.0000e-005	1.1799
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		10.5613	0.0148	4.3000e-004	11.0619

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.428069 / 4.19385	9.3875	0.0147	4.2000e-004	9.8821
City Park	0 / 0.595741	1.1738	1.0000e-004	1.0000e-005	1.1799
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		10.5613	0.0148	4.3000e-004	11.0619

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.5361	0.2090	0.0000	8.7605
Unmitigated	3.5361	0.2090	0.0000	8.7605

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	17.38	3.5280	0.2085	0.0000	8.7404
City Park	0.04	8.1200e-003	4.8000e-004	0.0000	0.0201
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.5361	0.2090	0.0000	8.7606

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	17.38	3.5280	0.2085	0.0000	8.7404
City Park	0.04	8.1200e-003	4.8000e-004	0.0000	0.0201
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.5361	0.2090	0.0000	8.7606

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

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
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Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Adelanto Quick n Clean
San Bernardino-Mojave Desert County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	78.65	1000sqft	1.81	78,653.00	0
City Park	0.50	Acre	0.50	21,789.00	0
Automobile Care Center	4.55	1000sqft	0.10	4,552.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Note 1
- Construction Phase - Note 2
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Vehicle Trips - Note 4
- Consumer Products -
- Appendix A
- Area Coating -

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use -

Water And Wastewater - Note 5

Solid Waste -

Construction Off-road Equipment Mitigation - Note 3

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	220.00	75.00
tblConstructionPhase	NumDays	6.00	22.00
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	3.00	10.00
tblLandUse	LandUseSquareFeet	78,650.00	78,653.00
tblLandUse	LandUseSquareFeet	21,780.00	21,789.00
tblLandUse	LandUseSquareFeet	4,550.00	4,552.00
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PR_TP	21.00	100.00
tblVehicleTrips	ST_TR	23.72	170.55
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	11.88	170.55
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	23.72	170.55
tblVehicleTrips	WD_TR	0.78	0.00
tblWater	OutdoorWaterUseRate	262,364.89	4,193,850.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
2023	7.5038	14.4862	15.7361	0.0315	7.1647	0.6202	7.7695	3.4465	0.5943	4.0029	0.0000	2,961.3029	2,961.3029	0.7698	0.0591	2,990.2056
Maximum	7.5038	14.4862	15.7361	0.0315	7.1647	0.6202	7.7695	3.4465	0.5943	4.0029	0.0000	2,961.3029	2,961.3029	0.7698	0.0591	2,990.2056

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	lb/day										lb/day					
2023	7.5038	14.4862	15.7361	0.0315	3.2693	0.6202	3.8741	1.5629	0.5943	2.1193	0.0000	2,961.3029	2,961.3029	0.7698	0.0591	2,990.2056
Maximum	7.5038	14.4862	15.7361	0.0315	3.2693	0.6202	3.8741	1.5629	0.5943	2.1193	0.0000	2,961.3029	2,961.3029	0.7698	0.0591	2,990.2056

	ROG	NOx	CO	SO2	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	54.37	0.00	50.14	54.65	0.00	47.06	0.00	0.00	0.00	0.00	0.00	0.00

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Energy	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166
Mobile	2.6705	3.5434	24.6195	0.0510	4.7883	0.0454	4.8338	1.2773	0.0426	1.3199		5,201.8535	5,201.8535	0.2933	0.2518	5,284.2113
Total	2.8460	3.5830	24.6613	0.0513	4.7883	0.0485	4.8368	1.2773	0.0457	1.3230		5,249.3065	5,249.3065	0.2943	0.2526	5,331.9474

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	lb/day										lb/day					
Area	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Energy	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166
Mobile	2.6705	3.5434	24.6195	0.0510	4.7883	0.0454	4.8338	1.2773	0.0426	1.3199		5,201.8535	5,201.8535	0.2933	0.2518	5,284.2113
Total	2.8460	3.5830	24.6613	0.0513	4.7883	0.0485	4.8368	1.2773	0.0457	1.3230		5,249.3065	5,249.3065	0.2943	0.2526	5,331.9474

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/14/2023	5	10	
2	Grading	Grading	6/15/2023	7/14/2023	5	22	
3	Building Construction	Building Construction	7/15/2023	10/27/2023	5	75	
4	Paving	Paving	10/28/2023	11/28/2023	5	22	
5	Architectural Coating	Architectural Coating	11/29/2023	12/28/2023	5	22	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 22

Acres of Paving: 1.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,830; Non-Residential Outdoor: 2,277; Striped Parking Area: 4,719

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29

Appendix A

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	44.00	17.00	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	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG Appendix A	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e Page 34
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Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000		0.0000	
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985		2,374.8634	2,374.8634	0.7681		2,394.0654
Total	1.3027	14.2802	9.7820	0.0245	1.5908	0.5419	2.1326	0.1718	0.4985	0.6703		2,374.8634	2,374.8634	0.7681		2,394.0654

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	lb/day										lb/day					
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
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
Worker	0.0266	0.0149	0.2305	5.9000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.1000e-004	0.0177		59.7202	59.7202	1.6700e-003	1.5400e-003	60.2205
Total	0.0266	0.0149	0.2305	5.9000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.1000e-004	0.0177		59.7202	59.7202	1.6700e-003	1.5400e-003	60.2205

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
Appendix A																

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day				
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000		0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985	0.0000	2,374.8634	2,374.8634	0.7681	2,394.0654
Total	1.3027	14.2802	9.7820	0.0245	0.7158	0.5419	1.2577	0.0773	0.4985	0.5758	0.0000	2,374.8634	2,374.8634	0.7681	2,394.0654

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	lb/day										lb/day					
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
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
Worker	0.0266	0.0149	0.2305	5.9000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.1000e-004	0.0177		59.7202	59.7202	1.6700e-003	1.5400e-003	60.2205
Total	0.0266	0.0149	0.2305	5.9000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.1000e-004	0.0177		59.7202	59.7202	1.6700e-003	1.5400e-003	60.2205

3.3 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
Appendix A																

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000		0.0000	
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	1,995.6147	1,995.6147	0.6454		2,011.7503	
Total	1.3330	14.4676	8.7038	0.0206	7.0826	0.6044	7.6869	3.4247	0.5560	3.9807		1,995.6147	1,995.6147	0.6454		2,011.7503

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	lb/day										lb/day					
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
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
Worker	0.0332	0.0186	0.2881	7.4000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		74.6502	74.6502	2.0900e-003	1.9200e-003	75.2756
Total	0.0332	0.0186	0.2881	7.4000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		74.6502	74.6502	2.0900e-003	1.9200e-003	75.2756

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
Appendix A																

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day				
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000		0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454	2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	3.1872	0.6044	3.7915	1.5411	0.5560	2.0971	0.0000	1,995.6147	1,995.6147	0.6454	2,011.7503

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	lb/day										lb/day					
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
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
Worker	0.0332	0.0186	0.2881	7.4000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		74.6502	74.6502	2.0900e-003	1.9200e-003	75.2756
Total	0.0332	0.0186	0.2881	7.4000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		74.6502	74.6502	2.0900e-003	1.9200e-003	75.2756

3.4 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
Appendix A																

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0203	0.6184	0.2541	3.2000e-003	0.1152	4.7300e-003	0.1199	0.0332	4.5300e-003	0.0377		343.3187	343.3187	8.9700e-003	0.0507	358.6451
Worker	0.1462	0.0818	1.2675	3.2500e-003	0.3615	1.8400e-003	0.3633	0.0959	1.6900e-003	0.0976		328.4608	328.4608	9.2100e-003	8.4600e-003	331.2126
Total	0.1664	0.7002	1.5216	6.4500e-003	0.4767	6.5700e-003	0.4832	0.1290	6.2200e-003	0.1353		671.7796	671.7796	0.0182	0.0591	689.8577

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Appendix A																

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479

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	lb/day										lb/day					
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
Vendor	0.0203	0.6184	0.2541	3.2000e-003	0.1152	4.7300e-003	0.1199	0.0332	4.5300e-003	0.0377		343.3187	343.3187	8.9700e-003	0.0507	358.6451
Worker	0.1462	0.0818	1.2675	3.2500e-003	0.3615	1.8400e-003	0.3633	0.0959	1.6900e-003	0.0976		328.4608	328.4608	9.2100e-003	8.4600e-003	331.2126
Total	0.1664	0.7002	1.5216	6.4500e-003	0.4767	6.5700e-003	0.4832	0.1290	6.2200e-003	0.1353		671.7796	671.7796	0.0182	0.0591	689.8577

3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	0.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Total	1.0958	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003			1,709.9926	1,709.9926	0.5420		1,723.5414

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	lb/day										lb/day					
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
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
Worker	0.0498	0.0279	0.4321	1.1100e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		111.9753	111.9753	3.1400e-003	2.8800e-003	112.9134
Total	0.0498	0.0279	0.4321	1.1100e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		111.9753	111.9753	3.1400e-003	2.8800e-003	112.9134

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	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	0.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0958	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414

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	lb/day										lb/day					
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
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
Worker	0.0498	0.0279	0.4321	1.1100e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		111.9753	111.9753	3.1400e-003	2.8800e-003	112.9134
Total	0.0498	0.0279	0.4321	1.1100e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		111.9753	111.9753	3.1400e-003	2.8800e-003	112.9134

3.6 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	lb/day										lb/day					
Archit. Coating	7.2822					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	7.4739	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	lb/day										lb/day					
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
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
Worker	0.0299	0.0167	0.2593	6.6000e-004	0.0739	3.8000e-004	0.0743	0.0196	3.5000e-004	0.0200		67.1852	67.1852	1.8800e-003	1.7300e-003	67.7480
Total	0.0299	0.0167	0.2593	6.6000e-004	0.0739	3.8000e-004	0.0743	0.0196	3.5000e-004	0.0200		67.1852	67.1852	1.8800e-003	1.7300e-003	67.7480

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	lb/day										lb/day					
Archit. Coating	7.2822					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	7.4739	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	lb/day										lb/day					
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
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
Worker	0.0299	0.0167	0.2593	6.6000e-004	0.0739	3.8000e-004	0.0743	0.0196	3.5000e-004	0.0200		67.1852	67.1852	1.8800e-003	1.7300e-003	67.7480
Total	0.0299	0.0167	0.2593	6.6000e-004	0.0739	3.8000e-004	0.0743	0.0196	3.5000e-004	0.0200		67.1852	67.1852	1.8800e-003	1.7300e-003	67.7480

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day				
	2.6705	3.5434	24.6195	0.0510	4.7883	0.0454	4.8338	1.2773	0.0426	1.3199	5,201.8535	5,201.8535	0.2933	0.2518	5,284.2113
Mitigated	2.6705	3.5434	24.6195	0.0510	4.7883	0.0454	4.8338	1.2773	0.0426	1.3199	5,201.8535	5,201.8535	0.2933	0.2518	5,284.2113
Unmitigated	2.6705	3.5434	24.6195	0.0510	4.7883	0.0454	4.8338	1.2773	0.0426	1.3199	5,201.8535	5,201.8535	0.2933	0.2518	5,284.2113

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	776.00	776.00	776.00	2,267,063	2,267,063
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	776.00	776.00	776.00	2,267,063	2,267,063

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
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	100	0	0
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.534251	0.055593	0.171990	0.141576	0.027719	0.007281	0.011628	0.017336	0.000569	0.000257	0.025522	0.000954	0.00532
City Park	0.534251	0.055593	0.171990	0.141576	0.027719	0.007281	0.011628	0.017336	0.000569	0.000257	0.025522	0.000954	0.00532
Parking Lot	0.534251	0.055593	0.171990	0.141576	0.027719	0.007281	0.011628	0.017336	0.000569	0.000257	0.025522	0.000954	0.00532

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166
NaturalGas Unmitigated	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166

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	lb/day										lb/day					
Automobile Care Center	403.195	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166
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
Parking Lot	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
Total		4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	0.403195	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166
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
Parking Lot	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
Total		4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Unmitigated	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0439					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-004	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Total	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195

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	lb/day										lb/day					
Architectural Coating	0.0439					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-004	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Total	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

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

Boilers

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

Equipment Type	Number
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11.0 Vegetation

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Adelanto Quick n Clean
San Bernardino-Mojave Desert County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	78.65	1000sqft	1.81	78,653.00	0
City Park	0.50	Acre	0.50	21,789.00	0
Automobile Care Center	4.55	1000sqft	0.10	4,552.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading -

Vehicle Trips - Note 4

Consumer Products -

Appendix A
Area Coating -

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy Use -

Water And Wastewater - Note 5

Solid Waste -

Construction Off-road Equipment Mitigation - Note 3

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	220.00	75.00
tblConstructionPhase	NumDays	6.00	22.00
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	3.00	10.00
tblLandUse	LandUseSquareFeet	78,650.00	78,653.00
tblLandUse	LandUseSquareFeet	21,780.00	21,789.00
tblLandUse	LandUseSquareFeet	4,550.00	4,552.00
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PR_TP	21.00	100.00
tblVehicleTrips	ST_TR	23.72	170.55
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	11.88	170.55
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	23.72	170.55
tblVehicleTrips	WD_TR	0.78	0.00
tblWater	OutdoorWaterUseRate	262,364.89	4,193,850.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
2023	7.5020	14.4872	15.5372	0.0312	7.1647	0.6202	7.7695	3.4465	0.5943	4.0029	0.0000	2,931.3699	2,931.3699	0.7698	0.0596	2,960.4051
Maximum	7.5020	14.4872	15.5372	0.0312	7.1647	0.6202	7.7695	3.4465	0.5943	4.0029	0.0000	2,931.3699	2,931.3699	0.7698	0.0596	2,960.4051

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	lb/day										lb/day					
2023	7.5020	14.4872	15.5372	0.0312	3.2693	0.6202	3.8741	1.5629	0.5943	2.1193	0.0000	2,931.3699	2,931.3699	0.7698	0.0596	2,960.4051
Maximum	7.5020	14.4872	15.5372	0.0312	3.2693	0.6202	3.8741	1.5629	0.5943	2.1193	0.0000	2,931.3699	2,931.3699	0.7698	0.0596	2,960.4051

	ROG	NOx	CO	SO2	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	54.37	0.00	50.14	54.65	0.00	47.06	0.00	0.00	0.00	0.00	0.00	0.00

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Area	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Energy	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166
Mobile	2.3145	3.7525	22.0230	0.0473	4.7883	0.0455	4.8338	1.2773	0.0427	1.3200		4,827.5467	4,827.5467	0.3019	0.2582	4,912.0271
Total	2.4899	3.7921	22.0647	0.0476	4.7883	0.0485	4.8368	1.2773	0.0457	1.3230		4,874.9997	4,874.9997	0.3029	0.2590	4,959.7632

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	lb/day										lb/day					
Area	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Energy	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166
Mobile	2.3145	3.7525	22.0230	0.0473	4.7883	0.0455	4.8338	1.2773	0.0427	1.3200		4,827.5467	4,827.5467	0.3019	0.2582	4,912.0271
Total	2.4899	3.7921	22.0647	0.0476	4.7883	0.0485	4.8368	1.2773	0.0457	1.3230		4,874.9997	4,874.9997	0.3029	0.2590	4,959.7632

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/14/2023	5	10	
2	Grading	Grading	6/15/2023	7/14/2023	5	22	
3	Building Construction	Building Construction	7/15/2023	10/27/2023	5	75	
4	Paving	Paving	10/28/2023	11/28/2023	5	22	
5	Architectural Coating	Architectural Coating	11/29/2023	12/28/2023	5	22	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 22

Acres of Paving: 1.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,830; Non-Residential Outdoor: 2,277; Striped Parking Area: 4,719

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29

Appendix A

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	44.00	17.00	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	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG Appendix A	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e Page 55
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Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day				
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000		0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985	2,374.8634	2,374.8634	0.7681		2,394.0654
Total	1.3027	14.2802	9.7820	0.0245	1.5908	0.5419	2.1326	0.1718	0.4985	0.6703		2,374.8634	2,374.8634	0.7681	2,394.0654

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	lb/day										lb/day					
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
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
Worker	0.0250	0.0157	0.1929	5.4000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.1000e-004	0.0177		54.1339	54.1339	1.7200e-003	1.5900e-003	54.6505
Total	0.0250	0.0157	0.1929	5.4000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.1000e-004	0.0177		54.1339	54.1339	1.7200e-003	1.5900e-003	54.6505

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
Appendix A																Page 56

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day				
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000		0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985	0.0000	2,374.8634	2,374.8634	0.7681	2,394.0654
Total	1.3027	14.2802	9.7820	0.0245	0.7158	0.5419	1.2577	0.0773	0.4985	0.5758	0.0000	2,374.8634	2,374.8634	0.7681	2,394.0654

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	lb/day										lb/day					
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
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
Worker	0.0250	0.0157	0.1929	5.4000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.1000e-004	0.0177		54.1339	54.1339	1.7200e-003	1.5900e-003	54.6505
Total	0.0250	0.0157	0.1929	5.4000e-004	0.0657	3.3000e-004	0.0661	0.0174	3.1000e-004	0.0177		54.1339	54.1339	1.7200e-003	1.5900e-003	54.6505

3.3 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
Appendix A																Page 57

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day				
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000		0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	7.0826	0.6044	7.6869	3.4247	0.5560	3.9807		1,995.6147	1,995.6147	0.6454	2,011.7503

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	lb/day										lb/day					
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
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
Worker	0.0313	0.0196	0.2411	6.7000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		67.6674	67.6674	2.1500e-003	1.9900e-003	68.3131
Total	0.0313	0.0196	0.2411	6.7000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		67.6674	67.6674	2.1500e-003	1.9900e-003	68.3131

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
Appendix A																

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day				
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000		0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454	2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	3.1872	0.6044	3.7915	1.5411	0.5560	2.0971	0.0000	1,995.6147	1,995.6147	0.6454	2,011.7503

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	lb/day										lb/day					
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
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
Worker	0.0313	0.0196	0.2411	6.7000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		67.6674	67.6674	2.1500e-003	1.9900e-003	68.3131
Total	0.0313	0.0196	0.2411	6.7000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		67.6674	67.6674	2.1500e-003	1.9900e-003	68.3131

3.4 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
Appendix A																

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479

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	lb/day										lb/day					
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
Vendor	0.0189	0.6529	0.2618	3.2100e-003	0.1152	4.7500e-003	0.1200	0.0332	4.5500e-003	0.0377		344.1099	344.1099	8.9000e-003	0.0508	359.4795
Worker	0.1375	0.0861	1.0609	2.9500e-003	0.3615	1.8400e-003	0.3633	0.0959	1.6900e-003	0.0976		297.7367	297.7367	9.4400e-003	8.7400e-003	300.5776
Total	0.1564	0.7390	1.3227	6.1600e-003	0.4767	6.5900e-003	0.4833	0.1290	6.2400e-003	0.1353		641.8466	641.8466	0.0183	0.0596	660.0572

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	lb/day										lb/day					
Appendix A																

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479

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	lb/day										lb/day					
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
Vendor	0.0189	0.6529	0.2618	3.2100e-003	0.1152	4.7500e-003	0.1200	0.0332	4.5500e-003	0.0377		344.1099	344.1099	8.9000e-003	0.0508	359.4795
Worker	0.1375	0.0861	1.0609	2.9500e-003	0.3615	1.8400e-003	0.3633	0.0959	1.6900e-003	0.0976		297.7367	297.7367	9.4400e-003	8.7400e-003	300.5776
Total	0.1564	0.7390	1.3227	6.1600e-003	0.4767	6.5900e-003	0.4833	0.1290	6.2400e-003	0.1353		641.8466	641.8466	0.0183	0.0596	660.0572

3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	0.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Total	1.0958	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003			1,709.9926	1,709.9926	0.5420		1,723.5414

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	lb/day										lb/day					
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
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
Worker	0.0469	0.0293	0.3617	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		101.5011	101.5011	3.2200e-003	2.9800e-003	102.4697
Total	0.0469	0.0293	0.3617	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		101.5011	101.5011	3.2200e-003	2.9800e-003	102.4697

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	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	0.2156					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0958	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414

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	lb/day										lb/day					
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
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
Worker	0.0469	0.0293	0.3617	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		101.5011	101.5011	3.2200e-003	2.9800e-003	102.4697
Total	0.0469	0.0293	0.3617	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		101.5011	101.5011	3.2200e-003	2.9800e-003	102.4697

3.6 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	lb/day										lb/day					
Archit. Coating	7.2822					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	7.4739	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	lb/day										lb/day					
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
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
Worker	0.0281	0.0176	0.2170	6.0000e-004	0.0739	3.8000e-004	0.0743	0.0196	3.5000e-004	0.0200		60.9007	60.9007	1.9300e-003	1.7900e-003	61.4818
Total	0.0281	0.0176	0.2170	6.0000e-004	0.0739	3.8000e-004	0.0743	0.0196	3.5000e-004	0.0200		60.9007	60.9007	1.9300e-003	1.7900e-003	61.4818

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	lb/day										lb/day					
Archit. Coating	7.2822					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	7.4739	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	lb/day										lb/day					
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
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
Worker	0.0281	0.0176	0.2170	6.0000e-004	0.0739	3.8000e-004	0.0743	0.0196	3.5000e-004	0.0200		60.9007	60.9007	1.9300e-003	1.7900e-003	61.4818
Total	0.0281	0.0176	0.2170	6.0000e-004	0.0739	3.8000e-004	0.0743	0.0196	3.5000e-004	0.0200		60.9007	60.9007	1.9300e-003	1.7900e-003	61.4818

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	lb/day										lb/day				
	2.3145	3.7525	22.0230	0.0473	4.7883	0.0455	4.8338	1.2773	0.0427	1.3200	4,827.5467	4,827.5467	0.3019	0.2582	4,912.0271
Mitigated	2.3145	3.7525	22.0230	0.0473	4.7883	0.0455	4.8338	1.2773	0.0427	1.3200	4,827.5467	4,827.5467	0.3019	0.2582	4,912.0271
Unmitigated	2.3145	3.7525	22.0230	0.0473	4.7883	0.0455	4.8338	1.2773	0.0427	1.3200	4,827.5467	4,827.5467	0.3019	0.2582	4,912.0271

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	776.00	776.00	776.00	2,267,063	2,267,063
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	776.00	776.00	776.00	2,267,063	2,267,063

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
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	100	0	0
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.534251	0.055593	0.171990	0.141576	0.027719	0.007281	0.011628	0.017336	0.000569	0.000257	0.025522	0.000954	0.00532
City Park	0.534251	0.055593	0.171990	0.141576	0.027719	0.007281	0.011628	0.017336	0.000569	0.000257	0.025522	0.000954	0.00532
Parking Lot	0.534251	0.055593	0.171990	0.141576	0.027719	0.007281	0.011628	0.017336	0.000569	0.000257	0.025522	0.000954	0.00532

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Appendix A

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166
NaturalGas Unmitigated	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166

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	lb/day										lb/day						
Automobile Care Center	403.195	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166
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
Parking Lot	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
Total		4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003			47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	0.403195	4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166
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
Parking Lot	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
Total		4.3500e-003	0.0395	0.0332	2.4000e-004		3.0000e-003	3.0000e-003		3.0000e-003	3.0000e-003		47.4347	47.4347	9.1000e-004	8.7000e-004	47.7166

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Unmitigated	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	lb/day										lb/day					
Architectural Coating	0.0439					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-004	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Total	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195

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	lb/day										lb/day					
Architectural Coating	0.0439					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-004	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195
Total	0.1711	8.0000e-005	8.5600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0183	0.0183	5.0000e-005		0.0195

Adelanto Quick n Clean - San Bernardino-Mojave Desert County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

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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