

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Summer

SBCo P201800361 Route 66 Shooting Range
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.44	1000sqft	0.03	1,440.00	0
Parking Lot	94.56	1000sqft	2.17	94,564.00	0
City Park	80.00	Acre	80.00	3,484,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Existing Shooting Range with improvements for grading, additional structures, and paving.

Land Use - Project Shooting Range - recreational city park used for modeling and estimating grading, project includes 94,564 sf of asphalt roadway, and addition of modular office and restrooms totalling 1,440 sf as found on site plans.

Construction Phase - Constructions defaults lowered due to the project scope which includes modular structures, paving, and grading that will not include the entire 80 acre site Arch Coating deleted since buildings are modular.

Off-road Equipment -

Off-road Equipment - Building Phase equipment decreased as proposed buildings are modular

Off-road Equipment - grading phase equipment reduced due to the limited grading estimated at less than 25 acres

Off-road Equipment -

Off-road Equipment - Site prep equipment reduced due to projects use and the existing facilities that will remain

Trips and VMT - Bldg Construction worker trips reduced due to the buildings being modular

Grading - Entire site will not be graded

Architectural Coating - VOC Per Rule 1113

Vehicle Trips - Traffic per Project Site Plan information 50 - 60 vehicles per weekday and 75 - 120 vehicles per weekend day

Construction Off-road Equipment Mitigation - Mitigation per Rule 403 Fugitive Dust

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblConstructionPhase	NumDays	1,550.00	10.00
tblConstructionPhase	NumDays	155.00	50.00
tblConstructionPhase	NumDays	110.00	10.00
tblConstructionPhase	NumDays	60.00	10.00
tblGrading	AcresOfGrading	112.50	15.00
tblLandUse	LandUseSquareFeet	94,560.00	94,564.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

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tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblTripsAndVMT	VendorTripNumber	587.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	10.00
tblTripsAndVMT	WorkerTripNumber	1,504.00	5.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	77.00	0.00
tblVehicleTrips	ST_TR	22.75	1.50
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	16.74	1.50
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	1.89	0.75
tblVehicleTrips	WD_TR	11.03	0.00

2.0 Emissions Summary

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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	lb/day										lb/day					
Area	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411
Energy	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201
Mobile	0.3040	1.8204	3.3844	0.0109	0.7362	0.0107	0.7469	0.1970	0.0100	0.2071		1,108.3670	1,108.3670	0.0620		1,109.9174
Total	0.5583	1.8219	3.4037	0.0109	0.7362	0.0108	0.7470	0.1970	0.0102	0.2073		1,110.0161	1,110.0161	0.0621	3.0000e-005	1,111.5786

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	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411
Energy	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201
Mobile	0.3040	1.8204	3.3844	0.0109	0.7362	0.0107	0.7469	0.1970	0.0100	0.2071		1,108.3670	1,108.3670	0.0620		1,109.9174
Total	0.5583	1.8219	3.4037	0.0109	0.7362	0.0108	0.7470	0.1970	0.0102	0.2073		1,110.0161	1,110.0161	0.0621	3.0000e-005	1,111.5786

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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
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	1/7/2019	1/18/2019	5	10	
2	Grading	Grading	1/21/2019	3/29/2019	5	50	
3	Building Construction	Building Construction	4/1/2019	4/12/2019	5	10	
4	Paving	Paving	4/29/2019	5/10/2019	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 2.17

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

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	1	4.00	187	0.41
Grading	Rubber Tired Dozers	1	2.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	1	3.00	97	0.37
Building Construction	Welders	1	2.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40

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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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3.2 Site Preparation - 2019

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					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.6002	16.7492	8.8895	0.0147		0.9008	0.9008		0.8288	0.8288		1,460.512 2	1,460.512 2	0.4621		1,472.064 5
Total	1.6002	16.7492	8.8895	0.0147	6.0221	0.9008	6.9229	3.3102	0.8288	4.1390		1,460.512 2	1,460.512 2	0.4621		1,472.064 5

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
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
Worker	0.0474	0.0316	0.3988	9.4000e-004	0.0894	6.0000e-004	0.0900	0.0237	5.5000e-004	0.0243		93.3133	93.3133	3.1300e-003		93.3915
Total	0.0474	0.0316	0.3988	9.4000e-004	0.0894	6.0000e-004	0.0900	0.0237	5.5000e-004	0.0243		93.3133	93.3133	3.1300e-003		93.3915

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3.2 Site Preparation - 2019

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					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.6002	16.7492	8.8895	0.0147		0.9008	0.9008		0.8288	0.8288	0.0000	1,460.512 2	1,460.512 2	0.4621		1,472.064 5
Total	1.6002	16.7492	8.8895	0.0147	2.3486	0.9008	3.2494	1.2910	0.8288	2.1197	0.0000	1,460.512 2	1,460.512 2	0.4621		1,472.064 5

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
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
Worker	0.0474	0.0316	0.3988	9.4000e-004	0.0817	6.0000e-004	0.0823	0.0218	5.5000e-004	0.0224		93.3133	93.3133	3.1300e-003		93.3915
Total	0.0474	0.0316	0.3988	9.4000e-004	0.0817	6.0000e-004	0.0823	0.0218	5.5000e-004	0.0224		93.3133	93.3133	3.1300e-003		93.3915

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3.3 Grading - 2019

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					
Fugitive Dust					1.8237	0.0000	1.8237	0.8619	0.0000	0.8619			0.0000			0.0000
Off-Road	0.9926	10.9831	6.5954	0.0117		0.5649	0.5649		0.5197	0.5197		1,155.2544	1,155.2544	0.3655		1,164.3922
Total	0.9926	10.9831	6.5954	0.0117	1.8237	0.5649	2.3885	0.8619	0.5197	1.3816		1,155.2544	1,155.2544	0.3655		1,164.3922

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
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
Worker	0.0593	0.0394	0.4985	1.1700e-003	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		116.6416	116.6416	3.9100e-003		116.7394
Total	0.0593	0.0394	0.4985	1.1700e-003	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		116.6416	116.6416	3.9100e-003		116.7394

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3.3 Grading - 2019

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					
Fugitive Dust					0.7112	0.0000	0.7112	0.3361	0.0000	0.3361			0.0000			0.0000
Off-Road	0.9926	10.9831	6.5954	0.0117		0.5649	0.5649		0.5197	0.5197	0.0000	1,155.2544	1,155.2544	0.3655		1,164.3922
Total	0.9926	10.9831	6.5954	0.0117	0.7112	0.5649	1.2761	0.3361	0.5197	0.8558	0.0000	1,155.2544	1,155.2544	0.3655		1,164.3922

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
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
Worker	0.0593	0.0394	0.4985	1.1700e-003	0.1021	7.5000e-004	0.1028	0.0273	6.9000e-004	0.0280		116.6416	116.6416	3.9100e-003		116.7394
Total	0.0593	0.0394	0.4985	1.1700e-003	0.1021	7.5000e-004	0.1028	0.0273	6.9000e-004	0.0280		116.6416	116.6416	3.9100e-003		116.7394

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3.4 Building Construction - 2019

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	0.1836	1.2826	1.3153	1.8000e-003		0.0834	0.0834		0.0788	0.0788		167.1976	167.1976	0.0452		168.3266
Total	0.1836	1.2826	1.3153	1.8000e-003		0.0834	0.0834		0.0788	0.0788		167.1976	167.1976	0.0452		168.3266

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
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
Worker	0.0296	0.0197	0.2492	5.9000e-004	0.0559	3.8000e-004	0.0563	0.0148	3.5000e-004	0.0152		58.3208	58.3208	1.9600e-003		58.3697
Total	0.0296	0.0197	0.2492	5.9000e-004	0.0559	3.8000e-004	0.0563	0.0148	3.5000e-004	0.0152		58.3208	58.3208	1.9600e-003		58.3697

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3.4 Building Construction - 2019

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	0.1836	1.2826	1.3153	1.8000e-003		0.0834	0.0834		0.0788	0.0788	0.0000	167.1976	167.1976	0.0452		168.3266
Total	0.1836	1.2826	1.3153	1.8000e-003		0.0834	0.0834		0.0788	0.0788	0.0000	167.1976	167.1976	0.0452		168.3266

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
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
Worker	0.0296	0.0197	0.2492	5.9000e-004	0.0510	3.8000e-004	0.0514	0.0136	3.5000e-004	0.0140		58.3208	58.3208	1.9600e-003		58.3697
Total	0.0296	0.0197	0.2492	5.9000e-004	0.0510	3.8000e-004	0.0514	0.0136	3.5000e-004	0.0140		58.3208	58.3208	1.9600e-003		58.3697

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3.5 Paving - 2019

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.5685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0230	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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
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
Worker	0.0889	0.0592	0.7477	1.7600e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		174.9624	174.9624	5.8700e-003		175.1091
Total	0.0889	0.0592	0.7477	1.7600e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		174.9624	174.9624	5.8700e-003		175.1091

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3.5 Paving - 2019

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.5685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0230	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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
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
Worker	0.0889	0.0592	0.7477	1.7600e-003	0.1531	1.1300e-003	0.1542	0.0409	1.0400e-003	0.0419		174.9624	174.9624	5.8700e-003		175.1091
Total	0.0889	0.0592	0.7477	1.7600e-003	0.1531	1.1300e-003	0.1542	0.0409	1.0400e-003	0.0419		174.9624	174.9624	5.8700e-003		175.1091

4.0 Operational Detail - Mobile

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Summer

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	lb/day										lb/day					
Mitigated	0.3040	1.8204	3.3844	0.0109	0.7362	0.0107	0.7469	0.1970	0.0100	0.2071		1,108.3670	1,108.3670	0.0620		1,109.9174
Unmitigated	0.3040	1.8204	3.3844	0.0109	0.7362	0.0107	0.7469	0.1970	0.0100	0.2071		1,108.3670	1,108.3670	0.0620		1,109.9174

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	60.00	120.00	120.00	221,982	221,982
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	60.00	120.00	120.00	221,982	221,982

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Summer

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
General Office Building	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Parking Lot	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163

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	lb/day										lb/day					
NaturalGas Mitigated	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201
NaturalGas Unmitigated	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Summer

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					
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
General Office Building	13.6899	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201
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		1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
General Office Building	0.0136899	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201
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		1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201

6.0 Area Detail

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Summer

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	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411
Unmitigated	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411

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	lb/day										lb/day					
Architectural Coating	0.0109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411
Total	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411
Total	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411

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

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Summer

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

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

SBCo P201800361 Route 66 Shooting Range
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.44	1000sqft	0.03	1,440.00	0
Parking Lot	94.56	1000sqft	2.17	94,564.00	0
City Park	80.00	Acre	80.00	3,484,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

Project Characteristics - Existing Shooting Range with improvements for grading, additional structures, and paving.

Land Use - Project Shooting Range - recreational city park used for modeling and estimating grading, project includes 94,564 sf of asphalt roadway, and addition of modular office and restrooms totalling 1,440 sf as found on site plans.

Construction Phase - Constructions defaults lowered due to the project scope which includes modular structures, paving, and grading that will not include the entire 80 acre site Arch Coating deleted since buildings are modular.

Off-road Equipment -

Off-road Equipment - Building Phase equipment decreased as proposed buildings are modular

Off-road Equipment - grading phase equipment reduced due to the limited grading estimated at less than 25 acres

Off-road Equipment -

Off-road Equipment - Site prep equipment reduced due to projects use and the existing facilities that will remain

Trips and VMT - Bldg Construction worker trips reduced due to the buildings being modular

Grading - Entire site will not be graded

Architectural Coating - VOC Per Rule 1113

Vehicle Trips - Traffic per Project Site Plan information 50 - 60 vehicles per weekday and 75 - 120 vehicles per weekend day

Construction Off-road Equipment Mitigation - Mitigation per Rule 403 Fugitive Dust

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblConstructionPhase	NumDays	1,550.00	10.00
tblConstructionPhase	NumDays	155.00	50.00
tblConstructionPhase	NumDays	110.00	10.00
tblConstructionPhase	NumDays	60.00	10.00
tblGrading	AcresOfGrading	112.50	15.00
tblLandUse	LandUseSquareFeet	94,560.00	94,564.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblTripsAndVMT	VendorTripNumber	587.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	10.00
tblTripsAndVMT	WorkerTripNumber	1,504.00	5.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	77.00	0.00
tblVehicleTrips	ST_TR	22.75	1.50
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	16.74	1.50
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	1.89	0.75
tblVehicleTrips	WD_TR	11.03	0.00

2.0 Emissions Summary

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

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	lb/day										lb/day					
Area	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411
Energy	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201
Mobile	0.2657	1.8276	3.0007	0.0100	0.7362	0.0108	0.7470	0.1970	0.0102	0.2072		1,020.6357	1,020.6357	0.0628		1,022.2051
Total	0.5199	1.8291	3.0200	0.0100	0.7362	0.0109	0.7472	0.1970	0.0103	0.2074		1,022.2848	1,022.2848	0.0629	3.0000e-005	1,023.8664

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	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411
Energy	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201
Mobile	0.2657	1.8276	3.0007	0.0100	0.7362	0.0108	0.7470	0.1970	0.0102	0.2072		1,020.6357	1,020.6357	0.0628		1,022.2051
Total	0.5199	1.8291	3.0200	0.0100	0.7362	0.0109	0.7472	0.1970	0.0103	0.2074		1,022.2848	1,022.2848	0.0629	3.0000e-005	1,023.8664

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	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	1/7/2019	1/18/2019	5	10	
2	Grading	Grading	1/21/2019	3/29/2019	5	50	
3	Building Construction	Building Construction	4/1/2019	4/12/2019	5	10	
4	Paving	Paving	4/29/2019	5/10/2019	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 2.17

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

OffRoad Equipment

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	1	4.00	187	0.41
Grading	Rubber Tired Dozers	1	2.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	1	3.00	97	0.37
Building Construction	Welders	1	2.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40

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	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

3.2 Site Preparation - 2019

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					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.6002	16.7492	8.8895	0.0147		0.9008	0.9008		0.8288	0.8288		1,460.512 2	1,460.512 2	0.4621		1,472.064 5
Total	1.6002	16.7492	8.8895	0.0147	6.0221	0.9008	6.9229	3.3102	0.8288	4.1390		1,460.512 2	1,460.512 2	0.4621		1,472.064 5

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
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
Worker	0.0474	0.0332	0.3284	8.4000e-004	0.0894	6.0000e-004	0.0900	0.0237	5.5000e-004	0.0243		83.7104	83.7104	2.7500e-003		83.7791
Total	0.0474	0.0332	0.3284	8.4000e-004	0.0894	6.0000e-004	0.0900	0.0237	5.5000e-004	0.0243		83.7104	83.7104	2.7500e-003		83.7791

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

3.2 Site Preparation - 2019

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					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.6002	16.7492	8.8895	0.0147		0.9008	0.9008		0.8288	0.8288	0.0000	1,460.512 2	1,460.512 2	0.4621		1,472.064 5
Total	1.6002	16.7492	8.8895	0.0147	2.3486	0.9008	3.2494	1.2910	0.8288	2.1197	0.0000	1,460.512 2	1,460.512 2	0.4621		1,472.064 5

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
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
Worker	0.0474	0.0332	0.3284	8.4000e-004	0.0817	6.0000e-004	0.0823	0.0218	5.5000e-004	0.0224		83.7104	83.7104	2.7500e-003		83.7791
Total	0.0474	0.0332	0.3284	8.4000e-004	0.0817	6.0000e-004	0.0823	0.0218	5.5000e-004	0.0224		83.7104	83.7104	2.7500e-003		83.7791

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

3.3 Grading - 2019

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					
Fugitive Dust					1.8237	0.0000	1.8237	0.8619	0.0000	0.8619			0.0000			0.0000
Off-Road	0.9926	10.9831	6.5954	0.0117		0.5649	0.5649		0.5197	0.5197		1,155.2544	1,155.2544	0.3655		1,164.3922
Total	0.9926	10.9831	6.5954	0.0117	1.8237	0.5649	2.3885	0.8619	0.5197	1.3816		1,155.2544	1,155.2544	0.3655		1,164.3922

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
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
Worker	0.0592	0.0415	0.4105	1.0500e-003	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		104.6381	104.6381	3.4300e-003		104.7239
Total	0.0592	0.0415	0.4105	1.0500e-003	0.1118	7.5000e-004	0.1125	0.0296	6.9000e-004	0.0303		104.6381	104.6381	3.4300e-003		104.7239

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

3.3 Grading - 2019

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					
Fugitive Dust					0.7112	0.0000	0.7112	0.3361	0.0000	0.3361			0.0000			0.0000
Off-Road	0.9926	10.9831	6.5954	0.0117		0.5649	0.5649		0.5197	0.5197	0.0000	1,155.254 4	1,155.254 4	0.3655		1,164.392 2
Total	0.9926	10.9831	6.5954	0.0117	0.7112	0.5649	1.2761	0.3361	0.5197	0.8558	0.0000	1,155.254 4	1,155.254 4	0.3655		1,164.392 2

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
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
Worker	0.0592	0.0415	0.4105	1.0500e-003	0.1021	7.5000e-004	0.1028	0.0273	6.9000e-004	0.0280		104.6381	104.6381	3.4300e-003		104.7239
Total	0.0592	0.0415	0.4105	1.0500e-003	0.1021	7.5000e-004	0.1028	0.0273	6.9000e-004	0.0280		104.6381	104.6381	3.4300e-003		104.7239

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

3.4 Building Construction - 2019

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	0.1836	1.2826	1.3153	1.8000e-003		0.0834	0.0834		0.0788	0.0788		167.1976	167.1976	0.0452		168.3266
Total	0.1836	1.2826	1.3153	1.8000e-003		0.0834	0.0834		0.0788	0.0788		167.1976	167.1976	0.0452		168.3266

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
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
Worker	0.0296	0.0208	0.2052	5.3000e-004	0.0559	3.8000e-004	0.0563	0.0148	3.5000e-004	0.0152		52.3190	52.3190	1.7200e-003		52.3619
Total	0.0296	0.0208	0.2052	5.3000e-004	0.0559	3.8000e-004	0.0563	0.0148	3.5000e-004	0.0152		52.3190	52.3190	1.7200e-003		52.3619

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

3.4 Building Construction - 2019

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	0.1836	1.2826	1.3153	1.8000e-003		0.0834	0.0834		0.0788	0.0788	0.0000	167.1976	167.1976	0.0452		168.3266
Total	0.1836	1.2826	1.3153	1.8000e-003		0.0834	0.0834		0.0788	0.0788	0.0000	167.1976	167.1976	0.0452		168.3266

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
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
Worker	0.0296	0.0208	0.2052	5.3000e-004	0.0510	3.8000e-004	0.0514	0.0136	3.5000e-004	0.0140		52.3190	52.3190	1.7200e-003		52.3619
Total	0.0296	0.0208	0.2052	5.3000e-004	0.0510	3.8000e-004	0.0514	0.0136	3.5000e-004	0.0140		52.3190	52.3190	1.7200e-003		52.3619

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

3.5 Paving - 2019

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.5685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0230	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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
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
Worker	0.0888	0.0623	0.6157	1.5800e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		156.9571	156.9571	5.1500e-003		157.0858
Total	0.0888	0.0623	0.6157	1.5800e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		156.9571	156.9571	5.1500e-003		157.0858

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

3.5 Paving - 2019

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.5685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0230	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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
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
Worker	0.0888	0.0623	0.6157	1.5800e-003	0.1531	1.1300e-003	0.1542	0.0409	1.0400e-003	0.0419		156.9571	156.9571	5.1500e-003		157.0858
Total	0.0888	0.0623	0.6157	1.5800e-003	0.1531	1.1300e-003	0.1542	0.0409	1.0400e-003	0.0419		156.9571	156.9571	5.1500e-003		157.0858

4.0 Operational Detail - Mobile

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

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	lb/day										lb/day					
Mitigated	0.2657	1.8276	3.0007	0.0100	0.7362	0.0108	0.7470	0.1970	0.0102	0.2072		1,020.6357	1,020.6357	0.0628		1,022.2051
Unmitigated	0.2657	1.8276	3.0007	0.0100	0.7362	0.0108	0.7470	0.1970	0.0102	0.2072		1,020.6357	1,020.6357	0.0628		1,022.2051

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	60.00	120.00	120.00	221,982	221,982
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	60.00	120.00	120.00	221,982	221,982

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
General Office Building	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Parking Lot	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163

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	lb/day										lb/day					
NaturalGas Mitigated	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201
NaturalGas Unmitigated	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

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					
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
General Office Building	13.6899	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201
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		1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
General Office Building	0.0136899	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201
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		1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6106	1.6106	3.0000e-005	3.0000e-005	1.6201

6.0 Area Detail

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

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	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411
Unmitigated	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411

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	lb/day										lb/day					
Architectural Coating	0.0109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411
Total	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7200e-003	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411
Total	0.2541	1.7000e-004	0.0182	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0385	0.0385	1.0000e-004		0.0411

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

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Winter

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

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Annual

SBCo P201800361 Route 66 Shooting Range
San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.44	1000sqft	0.03	1,440.00	0
Parking Lot	94.56	1000sqft	2.17	94,564.00	0
City Park	80.00	Acre	80.00	3,484,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2019
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

SBCo P201800361 Route 66 Shooting Range - San Bernardino-South Coast County, Annual

Project Characteristics - Existing Shooting Range with improvements for grading, additional structures, and paving.

Land Use - Project Shooting Range - recreational city park used for modeling and estimating grading, project includes 94,564 sf of asphalt roadway, and addition of modular office and restrooms totalling 1,440 sf as found on site plans.

Construction Phase - Constructions defaults lowered due to the project scope which includes modular structures, paving, and grading that will not include the entire 80 acre site Arch Coating deleted since buildings are modular.

Off-road Equipment -

Off-road Equipment - Building Phase equipment decreased as proposed buildings are modular

Off-road Equipment - grading phase equipment reduced due to the limited grading estimated at less than 25 acres

Off-road Equipment -

Off-road Equipment - Site prep equipment reduced due to projects use and the existing facilities that will remain

Trips and VMT - Bldg Construction worker trips reduced due to the buildings being modular

Grading - Entire site will not be graded

Architectural Coating - VOC Per Rule 1113

Vehicle Trips - Traffic per Project Site Plan information 50 - 60 vehicles per weekday and 75 - 120 vehicles per weekend day

Construction Off-road Equipment Mitigation - Mitigation per Rule 403 Fugitive Dust

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblConstructionPhase	NumDays	1,550.00	10.00
tblConstructionPhase	NumDays	155.00	50.00
tblConstructionPhase	NumDays	110.00	10.00
tblConstructionPhase	NumDays	60.00	10.00
tblGrading	AcresOfGrading	112.50	15.00
tblLandUse	LandUseSquareFeet	94,560.00	94,564.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

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tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblTripsAndVMT	VendorTripNumber	587.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	10.00
tblTripsAndVMT	WorkerTripNumber	1,504.00	5.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	77.00	0.00
tblVehicleTrips	ST_TR	22.75	1.50
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	16.74	1.50
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	1.89	0.75
tblVehicleTrips	WD_TR	11.03	0.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-7-2019	4-6-2019	0.3755	0.3755
2	4-7-2019	7-6-2019	0.0779	0.0779
		Highest	0.3755	0.3755

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	0.0463	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3700e-003	4.3700e-003	1.0000e-005	0.0000	4.6600e-003
Energy	3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	15.1801	15.1801	6.2000e-004	1.3000e-004	15.2350
Mobile	0.0303	0.2189	0.3625	1.2000e-003	0.0845	1.2500e-003	0.0858	0.0227	1.1800e-003	0.0238	0.0000	110.6273	110.6273	6.5500e-003	0.0000	110.7910
Waste						0.0000	0.0000		0.0000	0.0000	1.6686	0.0000	1.6686	0.0986	0.0000	4.1339
Water						0.0000	0.0000		0.0000	0.0000	0.0812	339.0336	339.1148	0.0223	3.0900e-003	340.5948
Total	0.0766	0.2192	0.3649	1.2000e-003	0.0845	1.2800e-003	0.0858	0.0227	1.2100e-003	0.0239	1.7498	464.8453	466.5951	0.1281	3.2200e-003	470.7594

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0463	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3700e-003	4.3700e-003	1.0000e-005	0.0000	4.6600e-003
Energy	3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	15.1801	15.1801	6.2000e-004	1.3000e-004	15.2350
Mobile	0.0303	0.2189	0.3625	1.2000e-003	0.0845	1.2500e-003	0.0858	0.0227	1.1800e-003	0.0238	0.0000	110.6273	110.6273	6.5500e-003	0.0000	110.7910
Waste						0.0000	0.0000		0.0000	0.0000	1.6686	0.0000	1.6686	0.0986	0.0000	4.1339
Water						0.0000	0.0000		0.0000	0.0000	0.0812	339.0336	339.1148	0.0223	3.0900e-003	340.5948
Total	0.0766	0.2192	0.3649	1.2000e-003	0.0845	1.2800e-003	0.0858	0.0227	1.2100e-003	0.0239	1.7498	464.8453	466.5951	0.1281	3.2200e-003	470.7594

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/7/2019	1/18/2019	5	10	
2	Grading	Grading	1/21/2019	3/29/2019	5	50	
3	Building Construction	Building Construction	4/1/2019	4/12/2019	5	10	
4	Paving	Paving	4/29/2019	5/10/2019	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 2.17

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	1	4.00	187	0.41
Grading	Rubber Tired Dozers	1	2.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	1	3.00	97	0.37
Building Construction	Welders	1	2.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2019

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					0.0301	0.0000	0.0301	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0000e-003	0.0838	0.0445	7.0000e-005		4.5000e-003	4.5000e-003		4.1400e-003	4.1400e-003	0.0000	6.6248	6.6248	2.1000e-003	0.0000	6.6772
Total	8.0000e-003	0.0838	0.0445	7.0000e-005	0.0301	4.5000e-003	0.0346	0.0166	4.1400e-003	0.0207	0.0000	6.6248	6.6248	2.1000e-003	0.0000	6.6772

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3.2 Site Preparation - 2019

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	2.1000e-004	1.7000e-004	1.7200e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3880	0.3880	1.0000e-005	0.0000	0.3884
Total	2.1000e-004	1.7000e-004	1.7200e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3880	0.3880	1.0000e-005	0.0000	0.3884

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					0.0117	0.0000	0.0117	6.4500e-003	0.0000	6.4500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.0000e-003	0.0838	0.0445	7.0000e-005		4.5000e-003	4.5000e-003		4.1400e-003	4.1400e-003	0.0000	6.6248	6.6248	2.1000e-003	0.0000	6.6772
Total	8.0000e-003	0.0838	0.0445	7.0000e-005	0.0117	4.5000e-003	0.0162	6.4500e-003	4.1400e-003	0.0106	0.0000	6.6248	6.6248	2.1000e-003	0.0000	6.6772

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3.2 Site Preparation - 2019

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	2.1000e-004	1.7000e-004	1.7200e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3880	0.3880	1.0000e-005	0.0000	0.3884
Total	2.1000e-004	1.7000e-004	1.7200e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3880	0.3880	1.0000e-005	0.0000	0.3884

3.3 Grading - 2019

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					0.0456	0.0000	0.0456	0.0216	0.0000	0.0216	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2746	0.1649	2.9000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	26.2007	26.2007	8.2900e-003	0.0000	26.4080
Total	0.0248	0.2746	0.1649	2.9000e-004	0.0456	0.0141	0.0597	0.0216	0.0130	0.0345	0.0000	26.2007	26.2007	8.2900e-003	0.0000	26.4080

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3.3 Grading - 2019

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	1.3400e-003	1.0900e-003	0.0108	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4252	2.4252	8.0000e-005	0.0000	2.4272
Total	1.3400e-003	1.0900e-003	0.0108	3.0000e-005	2.7400e-003	2.0000e-005	2.7600e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.4252	2.4252	8.0000e-005	0.0000	2.4272

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					0.0178	0.0000	0.0178	8.4000e-003	0.0000	8.4000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2746	0.1649	2.9000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	26.2007	26.2007	8.2900e-003	0.0000	26.4079
Total	0.0248	0.2746	0.1649	2.9000e-004	0.0178	0.0141	0.0319	8.4000e-003	0.0130	0.0214	0.0000	26.2007	26.2007	8.2900e-003	0.0000	26.4079

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3.3 Grading - 2019

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	1.3400e-003	1.0900e-003	0.0108	3.0000e-005	2.5000e-003	2.0000e-005	2.5200e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.4252	2.4252	8.0000e-005	0.0000	2.4272
Total	1.3400e-003	1.0900e-003	0.0108	3.0000e-005	2.5000e-003	2.0000e-005	2.5200e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.4252	2.4252	8.0000e-005	0.0000	2.4272

3.4 Building Construction - 2019

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	9.2000e-004	6.4100e-003	6.5800e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	0.7584	0.7584	2.0000e-004	0.0000	0.7635
Total	9.2000e-004	6.4100e-003	6.5800e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	0.7584	0.7584	2.0000e-004	0.0000	0.7635

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3.4 Building Construction - 2019

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	1.3000e-004	1.1000e-004	1.0800e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2425	0.2425	1.0000e-005	0.0000	0.2427
Total	1.3000e-004	1.1000e-004	1.0800e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2425	0.2425	1.0000e-005	0.0000	0.2427

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.2000e-004	6.4100e-003	6.5800e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	0.7584	0.7584	2.0000e-004	0.0000	0.7635
Total	9.2000e-004	6.4100e-003	6.5800e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	0.7584	0.7584	2.0000e-004	0.0000	0.7635

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3.4 Building Construction - 2019

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	1.3000e-004	1.1000e-004	1.0800e-003	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2425	0.2425	1.0000e-005	0.0000	0.2427
Total	1.3000e-004	1.1000e-004	1.0800e-003	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2425	0.2425	1.0000e-005	0.0000	0.2427

3.5 Paving - 2019

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	7.2700e-003	0.0762	0.0733	1.1000e-004		4.1200e-003	4.1200e-003		3.7900e-003	3.7900e-003	0.0000	10.2376	10.2376	3.2400e-003	0.0000	10.3186
Paving	2.8400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0101	0.0762	0.0733	1.1000e-004		4.1200e-003	4.1200e-003		3.7900e-003	3.7900e-003	0.0000	10.2376	10.2376	3.2400e-003	0.0000	10.3186

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3.5 Paving - 2019

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	4.0000e-004	3.3000e-004	3.2300e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7276	0.7276	2.0000e-005	0.0000	0.7282
Total	4.0000e-004	3.3000e-004	3.2300e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7276	0.7276	2.0000e-005	0.0000	0.7282

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	7.2700e-003	0.0762	0.0733	1.1000e-004		4.1200e-003	4.1200e-003		3.7900e-003	3.7900e-003	0.0000	10.2376	10.2376	3.2400e-003	0.0000	10.3186
Paving	2.8400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0101	0.0762	0.0733	1.1000e-004		4.1200e-003	4.1200e-003		3.7900e-003	3.7900e-003	0.0000	10.2376	10.2376	3.2400e-003	0.0000	10.3186

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3.5 Paving - 2019

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	4.0000e-004	3.3000e-004	3.2300e-003	1.0000e-005	7.5000e-004	1.0000e-005	7.6000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.7276	0.7276	2.0000e-005	0.0000	0.7282
Total	4.0000e-004	3.3000e-004	3.2300e-003	1.0000e-005	7.5000e-004	1.0000e-005	7.6000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.7276	0.7276	2.0000e-005	0.0000	0.7282

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0303	0.2189	0.3625	1.2000e-003	0.0845	1.2500e-003	0.0858	0.0227	1.1800e-003	0.0238	0.0000	110.6273	110.6273	6.5500e-003	0.0000	110.7910
Unmitigated	0.0303	0.2189	0.3625	1.2000e-003	0.0845	1.2500e-003	0.0858	0.0227	1.1800e-003	0.0238	0.0000	110.6273	110.6273	6.5500e-003	0.0000	110.7910

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	60.00	120.00	120.00	221,982	221,982
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	60.00	120.00	120.00	221,982	221,982

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
General Office Building	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Parking Lot	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163

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	0.0000	14.9135	14.9135	6.2000e-004	1.3000e-004	14.9668
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	14.9135	14.9135	6.2000e-004	1.3000e-004	14.9668
NaturalGas Mitigated	3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2667	0.2667	1.0000e-005	0.0000	0.2682
NaturalGas Unmitigated	3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2667	0.2667	1.0000e-005	0.0000	0.2682

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
General Office Building	4996.8	3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2667	0.2667	1.0000e-005	0.0000	0.2682
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
Total		3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2667	0.2667	1.0000e-005	0.0000	0.2682

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
General Office Building	4996.8	3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2667	0.2667	1.0000e-005	0.0000	0.2682
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
Total		3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2667	0.2667	1.0000e-005	0.0000	0.2682

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	13708.8	4.3679	1.8000e-004	4.0000e-005	4.3835
Parking Lot	33097.4	10.5455	4.4000e-004	9.0000e-005	10.5833
Total		14.9135	6.2000e-004	1.3000e-004	14.9668

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	13708.8	4.3679	1.8000e-004	4.0000e-005	4.3835
Parking Lot	33097.4	10.5455	4.4000e-004	9.0000e-005	10.5833
Total		14.9135	6.2000e-004	1.3000e-004	14.9668

6.0 Area Detail

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6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0463	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3700e-003	4.3700e-003	1.0000e-005	0.0000	4.6600e-003
Unmitigated	0.0463	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3700e-003	4.3700e-003	1.0000e-005	0.0000	4.6600e-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	1.9800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0441					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3700e-003	4.3700e-003	1.0000e-005	0.0000	4.6600e-003
Total	0.0463	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3700e-003	4.3700e-003	1.0000e-005	0.0000	4.6600e-003

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.9800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0441					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3700e-003	4.3700e-003	1.0000e-005	0.0000	4.6600e-003
Total	0.0463	2.0000e-005	2.2700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3700e-003	4.3700e-003	1.0000e-005	0.0000	4.6600e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	339.1148	0.0223	3.0900e-003	340.5948
Unmitigated	339.1148	0.0223	3.0900e-003	340.5948

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 95.3185	337.4165	0.0139	2.8800e-003	338.6236
General Office Building	0.255937 / 0.156864	1.6983	8.4100e-003	2.1000e-004	1.9713
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		339.1148	0.0223	3.0900e-003	340.5948

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 95.3185	337.4165	0.0139	2.8800e-003	338.6236
General Office Building	0.255937 / 0.156864	1.6983	8.4100e-003	2.1000e-004	1.9713
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		339.1148	0.0223	3.0900e-003	340.5948

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.6686	0.0986	0.0000	4.1339
Unmitigated	1.6686	0.0986	0.0000	4.1339

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	6.88	1.3966	0.0825	0.0000	3.4600
General Office Building	1.34	0.2720	0.0161	0.0000	0.6739
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1.6686	0.0986	0.0000	4.1339

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	6.88	1.3966	0.0825	0.0000	3.4600
General Office Building	1.34	0.2720	0.0161	0.0000	0.6739
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1.6686	0.0986	0.0000	4.1339

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

**SBCo P201800361 Route 66 Shooting Range
San Bernardino-South Coast County, Mitigation Report**

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	5	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Graders	6.08000E-003	8.22400E-002	2.29800E-002	8.00000E-005	2.64000E-003	2.43000E-003	0.00000E+000	7.45737E+000	7.45737E+000	2.36000E-003	0.00000E+000	7.51635E+000
Pavers	2.88000E-003	3.12500E-002	2.90200E-002	5.00000E-005	1.53000E-003	1.41000E-003	0.00000E+000	4.22293E+000	4.22293E+000	1.34000E-003	0.00000E+000	4.25633E+000
Paving Equipment	2.13000E-003	2.25700E-002	2.52300E-002	4.00000E-005	1.12000E-003	1.03000E-003	0.00000E+000	3.65885E+000	3.65885E+000	1.16000E-003	0.00000E+000	3.68779E+000
Rollers	2.27000E-003	2.24100E-002	1.90700E-002	3.00000E-005	1.47000E-003	1.36000E-003	0.00000E+000	2.35581E+000	2.35581E+000	7.50000E-004	0.00000E+000	2.37445E+000
Rubber Tired Dozers	1.27600E-002	1.35840E-001	4.82000E-002	1.00000E-004	6.62000E-003	6.09000E-003	0.00000E+000	8.62830E+000	8.62830E+000	2.73000E-003	0.00000E+000	8.69655E+000
Tractors/Loaders/Backhoes	1.44000E-002	1.44620E-001	1.42480E-001	1.90000E-004	9.66000E-003	8.88000E-003	0.00000E+000	1.72630E+001	1.72630E+001	5.46000E-003	0.00000E+000	1.73995E+001
Welders	4.80000E-004	2.03000E-003	2.26000E-003	0.00000E+000	1.20000E-004	1.20000E-004	0.00000E+000	2.35280E-001	2.35280E-001	4.00000E-005	0.00000E+000	2.36260E-001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Graders	6.08000E-003	8.22400E-002	2.29800E-002	8.00000E-005	2.64000E-003	2.43000E-003	0.00000E+000	7.45736E+000	7.45736E+000	2.36000E-003	0.00000E+000	7.51634E+000
Pavers	2.88000E-003	3.12500E-002	2.90200E-002	5.00000E-005	1.53000E-003	1.41000E-003	0.00000E+000	4.22292E+000	4.22292E+000	1.34000E-003	0.00000E+000	4.25633E+000
Paving Equipment	2.13000E-003	2.25700E-002	2.52300E-002	4.00000E-005	1.12000E-003	1.03000E-003	0.00000E+000	3.65885E+000	3.65885E+000	1.16000E-003	0.00000E+000	3.68779E+000
Rollers	2.27000E-003	2.24100E-002	1.90700E-002	3.00000E-005	1.47000E-003	1.36000E-003	0.00000E+000	2.35581E+000	2.35581E+000	7.50000E-004	0.00000E+000	2.37444E+000
Rubber Tired Dozers	1.27600E-002	1.35840E-001	4.82000E-002	1.00000E-004	6.62000E-003	6.09000E-003	0.00000E+000	8.62829E+000	8.62829E+000	2.73000E-003	0.00000E+000	8.69654E+000
Tractors/Loaders/Balkhoes	1.44000E-002	1.44620E-001	1.42480E-001	1.90000E-004	9.66000E-003	8.88000E-003	0.00000E+000	1.72629E+001	1.72629E+001	5.46000E-003	0.00000E+000	1.73995E+001
Welders	4.80000E-004	2.03000E-003	2.26000E-003	0.00000E+000	1.20000E-004	1.20000E-004	0.00000E+000	2.35280E-001	2.35280E-001	4.00000E-005	0.00000E+000	2.36260E-001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.34096E-006	1.34096E-006	0.00000E+000	0.00000E+000	1.33043E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.36802E-006	2.36802E-006	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.21150E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15898E-006	1.15898E-006	0.00000E+000	0.00000E+000	1.14988E-006
Tractors/Loaders/Balkhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15855E-006	1.15855E-006	0.00000E+000	0.00000E+000	1.14946E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00
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No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	25.00		
Yes	Clean Paved Road	% PM Reduction	10.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.00	0.00	0.00	0.00	0.07	0.00
Grading	Fugitive Dust	0.05	0.02	0.02	0.01	0.61	0.61
Grading	Roads	0.00	0.00	0.00	0.00	0.09	0.08
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.09	0.09
Site Preparation	Fugitive Dust	0.03	0.02	0.01	0.01	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.09	0.08

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.02	0.12		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	50.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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