

Appendix B



Air Quality and Greenhouse Gas Worksheets

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Appendix B

Air Quality and Greenhouse Gas Worksheets and Modeling Output Files

- Appendix B.1: Construction Emissions Inventory (Daily Emissions)
 - CalEEMod Outputs – Construction
 - Localized Significance Threshold (LST) Calculation Worksheet

- Appendix B.2: Operational Emissions Inventory
 - CalEEMod Outputs – Operations (Baseline and Project)
 - Baseline (Existing)
 - Baseline (Buildout Year)
 - Buildout

- Appendix B.3: GHG Modeling Parameters and Summary of Emissions
 - GHG Parameters and Summary
 - CalEEMod Outputs
 - Construction Annual
 - Baseline (Existing); Baseline (Buildout Year); Buildout

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Arts Club - Buildout with Project Design Features - Los Angeles-South Coast County, Winter

Arts Club - Buildout with Project Design Features
Los Angeles-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	46.01	1000sqft	0.00	46,010.00	0
Enclosed Parking with Elevator	97.50	1000sqft	2.24	97,500.00	0
Health Club	74.06	1000sqft	0.46	74,060.00	0
Strip Mall	11.93	1000sqft	0.00	11,930.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS Standards

Land Use - Site specific.

Construction Phase - Project specific

Off-road Equipment - Demo

Off-road Equipment - Arch Coating

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Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Trips and VMT - Site specific.

Demolition -

Grading -

Vehicle Trips - Based on traffic study

Energy Use - 2016 Title 24

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - none

Stationary Sources - Emergency Generators and Fire Pumps - diesel generator

Stationary Sources - Emergency Generators and Fire Pumps EF - Consistency with SCAQMD BACT Requirements

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	10.00	131.00
tblConstructionPhase	NumDays	220.00	500.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	6.00	65.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	3.00	110.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	7/31/2019	8/31/2020
tblConstructionPhase	PhaseEndDate	11/30/2018	7/31/2020
tblConstructionPhase	PhaseEndDate	2/15/2017	1/15/2018

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tblConstructionPhase	PhaseEndDate	8/31/2017	3/31/2018
tblConstructionPhase	PhaseEndDate	7/2/2019	8/31/2020
tblConstructionPhase	PhaseEndDate	7/4/2017	8/31/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	3/1/2020
tblConstructionPhase	PhaseStartDate	9/1/2017	9/1/2018
tblConstructionPhase	PhaseStartDate	1/1/2017	12/1/2017
tblConstructionPhase	PhaseStartDate	7/5/2017	1/16/2018
tblConstructionPhase	PhaseStartDate	12/1/2018	8/1/2020
tblConstructionPhase	PhaseStartDate	2/16/2017	4/1/2018
tblEnergyUse	LightingElect	2.63	2.33
tblEnergyUse	T24E	3.92	0.42
tblEnergyUse	T24E	4.82	4.58
tblEnergyUse	T24E	2.36	2.24
tblEnergyUse	T24E	4.20	3.99
tblGrading	MaterialExported	0.00	48,000.00
tblLandUse	LotAcreage	1.06	0.00
tblLandUse	LotAcreage	1.70	0.46
tblLandUse	LotAcreage	0.27	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps

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tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	630.89
tblProjectCharacteristics	OperationalYear	2018	2020
tblStationaryGeneratorsPumpsEF	NOX_EF	2.85	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	3.1000e-004
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	670.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00

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tblTripsAndVMT	HaulingTripNumber	256.00	825.00
tblTripsAndVMT	HaulingTripNumber	6,000.00	3,429.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	38.00	25.00
tblTripsAndVMT	WorkerTripNumber	10.00	42.00
tblTripsAndVMT	WorkerTripNumber	13.00	50.00
tblTripsAndVMT	WorkerTripNumber	15.00	100.00
tblTripsAndVMT	WorkerTripNumber	91.00	100.00
tblTripsAndVMT	WorkerTripNumber	10.00	50.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	ST_TR	2.46	2.02
tblVehicleTrips	ST_TR	20.87	15.73
tblVehicleTrips	ST_TR	42.04	17.81
tblVehicleTrips	SU_TR	1.05	0.83
tblVehicleTrips	SU_TR	26.73	20.15
tblVehicleTrips	SU_TR	20.43	8.65
tblVehicleTrips	WD_TR	11.03	9.37
tblVehicleTrips	WD_TR	32.93	24.82
tblVehicleTrips	WD_TR	44.32	18.77

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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

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CalEEMod Output - Construction

Year	lb/day										lb/day						
2017	3.2667	39.5181	18.9549	0.0653		1.5159	4.9752		1.4226	2.1438							6,855.6490
2018	3.5772	48.1303	23.1318	0.1125		1.3546	5.7202		1.2973	2.1878							11,876.0168
2019	3.1830	23.0678	22.0910	0.0450		1.1698	2.4476		1.1204	1.4629							4,401.5113
2020	12.4234	21.1824	21.2755	0.0446		1.0116	2.2894		0.9687	1.3112							4,331.2374
Maximum	12.4234	48.1303	23.1318	0.1125		1.5159	5.7202		1.4226	2.1878							11,876.0168

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						
2017	3.2667	39.5181	18.9549	0.0653		1.5159	3.9187		1.4226	1.9839							6,855.6490
2018	3.5772	48.1303	23.1318	0.1125		1.3546	4.6637		1.2973	2.0279							11,876.0168
2019	3.1830	23.0678	22.0910	0.0450		1.1698	2.4476		1.1204	1.4629							4,401.5112
2020	12.4234	21.1824	21.2755	0.0446		1.0116	2.2894		0.9687	1.3112							4,331.2374
Maximum	12.4234	48.1303	23.1318	0.1125		1.5159	4.6637		1.4226	2.0279							11,876.0168

	ROG	NOx	CO	SO2	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	13.69	0.00	0.00	4.50	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	Demolition	Demolition	12/1/2017	1/15/2018	5	32	
2	Grading	Grading	1/16/2018	3/31/2018	6	65	
3	Foundation to Street Level	Site Preparation	4/1/2018	8/31/2018	5	110	
4	Building Construction	Building Construction	9/1/2018	7/31/2020	5	500	
5	Architectural Coating	Architectural Coating	3/1/2020	8/31/2020	5	131	
6	Paving	Paving	8/1/2020	8/31/2020	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 198,000; Non-Residential Outdoor: 66,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Generator Sets	0	8.00	84	0.74
Foundation to Street Level	Scrapers	0	8.00	367	0.48
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Cranes	1	8.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Pumps	1	8.00	84	0.74

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Foundation to Street Level	Cement and Mortar Mixers	1	8.00	9	0.56
Foundation to Street Level	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Graders	0	8.00	187	0.41
Foundation to Street Level	Cranes	1	8.00	231	0.29
Foundation to Street Level	Plate Compactors	1	8.00	8	0.43
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Foundation to Street Level	Pumps	1	8.00	84	0.74
Foundation to Street Level	Welders	1	8.00	46	0.45
Building Construction	Aerial Lifts	2	8.00	63	0.31
Foundation to Street Level	Graders	0	8.00	187	0.41
Building Construction	Air Compressors	2	8.00	78	0.48
Paving	Skid Steer Loaders	1	8.00	65	0.37
Foundation to Street Level	Tractors/Loaders/Backhoes	0	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	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	0	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
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CalEEMod Output - Construction

Demolition	4	42.00	0.00	825.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Grading	5	50.00	0.00	3,429.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Foundation to Street Level	6	100.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	100.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2017

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						0.0000	1.7319		0.0000	0.2622						0.0000
Off-Road	2.4457	23.7156	13.1635	0.0210		1.4187	1.4187		1.3298	1.3298						2,116.0319
Total	2.4457	23.7156	13.1635	0.0210		1.4187	3.1506		1.3298	1.5920						2,116.0319

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

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CalEEMod Output - Construction

Category	lb/day										lb/day						
Hauling	0.5306	15.5794	3.3977	0.0392		0.0928	1.3508		0.0888	0.4233							4,229.241 1
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.2904	0.2231	2.3937	5.1300e-003		4.3700e-003	0.4738		4.0300e-003	0.1285							510.3760
Total	0.8210	15.8025	5.7914	0.0443		0.0971	1.8246		0.0928	0.5518							4,739.617 1

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						0.0000	0.6754		0.0000	0.1023							0.0000
Off-Road	2.4457	23.7156	13.1635	0.0210		1.4187	1.4187		1.3298	1.3298							2,116.031 9
Total	2.4457	23.7156	13.1635	0.0210		1.4187	2.0942		1.3298	1.4320							2,116.031 9

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	0.5306	15.5794	3.3977	0.0392		0.0928	1.3508		0.0888	0.4233							4,229.241 1

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CalEEMod Output - Construction

Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Worker	0.2904	0.2231	2.3937	5.1300e-003		4.3700e-003	0.4738		4.0300e-003	0.1285						510.3760
Total	0.8210	15.8025	5.7914	0.0443		0.0971	1.8246		0.0928	0.5518						4,739.6171

3.2 Demolition - 2018

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						0.0000	1.7319		0.0000	0.2622						0.0000
Off-Road	2.2177	21.7344	12.7740	0.0210		1.2502	1.2502		1.1715	1.1715						2,091.1002
Total	2.2177	21.7344	12.7740	0.0210		1.2502	2.9820		1.1715	1.4337						2,091.1002

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	0.4658	14.3488	3.2049	0.0387		0.0621	2.2645		0.0594	0.6258						4,186.2485
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Worker	0.2568	0.1939	2.0885	4.9800e-003		4.1900e-003	0.4737		3.8600e-003	0.1284						496.3084

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CalEEMod Output - Construction

Total	0.7226	14.5427	5.2934	0.0437		0.0663	2.7382		0.0633	0.7541							4,682.5569
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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	lb/day										lb/day						
Fugitive Dust						0.0000	0.6754		0.0000	0.1023							0.0000
Off-Road	2.2177	21.7344	12.7740	0.0210		1.2502	1.2502		1.1715	1.1715							2,091.1002
Total	2.2177	21.7344	12.7740	0.0210		1.2502	1.9256		1.1715	1.2738							2,091.1002

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	0.4658	14.3488	3.2049	0.0387		0.0621	2.2645		0.0594	0.6258							4,186.2485
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.2568	0.1939	2.0885	4.9800e-003		4.1900e-003	0.4737		3.8600e-003	0.1284							496.3084
Total	0.7226	14.5427	5.2934	0.0437		0.0663	2.7382		0.0633	0.7541							4,682.5569

3.3 Grading - 2018

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CalEEMod Output - Construction

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						0.0000	0.0835		0.0000	0.0127						0.0000
Off-Road	1.7329	18.5389	11.9050	0.0274		0.8500	0.8500		0.8049	0.8049						2,719.2307
Total	1.7329	18.5389	11.9050	0.0274		0.8500	0.9335		0.8049	0.8175						2,719.2307

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	0.9532	29.3606	6.5578	0.0792		0.1271	1.9706		0.1216	0.6268						8,565.9427
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Worker	0.3057	0.2309	2.4864	5.9300e-003		4.9800e-003	0.5639		4.5900e-003	0.1528						590.8434
Total	1.2589	29.5915	9.0442	0.0851		0.1321	2.5344		0.1262	0.7796						9,156.7860

Mitigated Construction On-Site

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CalEEMod Output - 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
Category	lb/day										lb/day					
Fugitive Dust						0.0000	0.0326		0.0000	4.9300e-003						0.0000
Off-Road	1.7329	18.5389	11.9050	0.0274		0.8500	0.8500		0.8049	0.8049						2,719.2307
Total	1.7329	18.5389	11.9050	0.0274		0.8500	0.8825		0.8049	0.8098						2,719.2307

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	0.9532	29.3606	6.5578	0.0792		0.1271	1.9706		0.1216	0.6268						8,565.9427
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Worker	0.3057	0.2309	2.4864	5.9300e-003		4.9800e-003	0.5639		4.5900e-003	0.1528						590.8434
Total	1.2589	29.5915	9.0442	0.0851		0.1321	2.5344		0.1262	0.7796						9,156.7860

3.4 Foundation to Street Level - 2018

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					

Arts Club
CalEEMod Output - Construction

Fugitive Dust					0.0000	0.0000		0.0000	0.0000							0.0000
Off-Road	2.1624	17.2119	12.4292	0.0224			0.9763	0.9763		0.9526	0.9526					2,096.8305
Total	2.1624	17.2119	12.4292	0.0224			0.9763	0.9763		0.9526	0.9526					2,096.8305

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
Vendor	0.1199	3.0709	0.9209	6.4300e-003		0.0219	0.1820		0.0210	0.0671							686.6109
Worker	0.6115	0.4617	4.9727	0.0119		9.9700e-003	1.1277		9.1900e-003	0.3056							1,181.6867
Total	0.7313	3.5326	5.8936	0.0183		0.0319	1.3097		0.0302	0.3727							1,868.2976

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						0.0000	0.0000		0.0000	0.0000							0.0000
Off-Road	2.1624	17.2119	12.4292	0.0224		0.9763	0.9763		0.9526	0.9526							2,096.8305

Arts Club
CalEEMod Output - Construction

Total	2.1624	17.2119	12.4292	0.0224		0.9763	0.9763		0.9526	0.9526							2,096.8305
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Vendor	0.1199	3.0709	0.9209	6.4300e-003		0.0219	0.1820		0.0210	0.0671							686.6109
Worker	0.6115	0.4617	4.9727	0.0119		9.9700e-003	1.1277		9.1900e-003	0.3056							1,181.6867
Total	0.7313	3.5326	5.8936	0.0183		0.0319	1.3097		0.0302	0.3727							1,868.2976

3.5 Building Construction - 2018

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	2.8459	21.6826	17.2383	0.0272		1.3227	1.3227		1.2672	1.2672							2,602.5223
Total	2.8459	21.6826	17.2383	0.0272		1.3227	1.3227		1.2672	1.2672							2,602.5223

Arts Club
CalEEMod Output - Construction

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
Vendor	0.1199	3.0709	0.9209	6.4300e-003		0.0219	0.1820		0.0210	0.0671						686.6109
Worker	0.6115	0.4617	4.9727	0.0119		9.9700e-003	1.1277		9.1900e-003	0.3056						1,181.6867
Total	0.7313	3.5326	5.8936	0.0183		0.0319	1.3097		0.0302	0.3727						1,868.2976

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	2.8459	21.6826	17.2383	0.0272		1.3227	1.3227		1.2672	1.2672						2,602.5223
Total	2.8459	21.6826	17.2383	0.0272		1.3227	1.3227		1.2672	1.2672						2,602.5223

Mitigated Construction Off-Site

Arts Club
CalEEMod Output - 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
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Vendor	0.1199	3.0709	0.9209	6.4300e-003		0.0219	0.1820		0.0210	0.0671						686.6109
Worker	0.6115	0.4617	4.9727	0.0119		9.9700e-003	1.1277		9.1900e-003	0.3056						1,181.6867
Total	0.7313	3.5326	5.8936	0.0183		0.0319	1.3097		0.0302	0.3727						1,868.2976

3.5 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	2.5208	19.7641	16.8200	0.0272		1.1414	1.1414		1.0935	1.0935						2,579.0143
Total	2.5208	19.7641	16.8200	0.0272		1.1414	1.1414		1.0935	1.0935						2,579.0143

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					

Arts Club
CalEEMod Output - Construction

Hauling	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Vendor	0.1084	2.8971	0.8462	6.3600e-003		0.0188	0.1788		0.0179	0.0640						679.3838
Worker	0.5538	0.4066	4.4248	0.0115		9.6400e-003	1.1274		8.8800e-003	0.3053						1,143.1131
Total	0.6621	3.3037	5.2710	0.0178		0.0284	1.3062		0.0268	0.3693						1,822.4969

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	2.5208	19.7641	16.8200	0.0272		1.1414	1.1414		1.0935	1.0935							2,579.0143
Total	2.5208	19.7641	16.8200	0.0272		1.1414	1.1414		1.0935	1.0935							2,579.0143

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
Vendor	0.1084	2.8971	0.8462	6.3600e-003		0.0188	0.1788		0.0179	0.0640						679.3838

Arts Club
CalEEMod Output - Construction

Worker	0.5538	0.4066	4.4248	0.0115		9.6400e-003	1.1274		8.8800e-003	0.3053						1,143.1131
Total	0.6621	3.3037	5.2710	0.0178		0.0284	1.3062		0.0268	0.3693						1,822.4969

3.5 Building Construction - 2020

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	2.2717	18.1612	16.4969	0.0272		0.9895	0.9895		0.9479	0.9479						2,548.1956
Total	2.2717	18.1612	16.4969	0.0272		0.9895	0.9895		0.9479	0.9479						2,548.1956

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
Vendor	0.0930	2.6588	0.7685	6.3100e-003		0.0127	0.1728		0.0122	0.0582						674.7488
Worker	0.5110	0.3625	4.0101	0.0111		9.3400e-003	1.1271		8.6100e-003	0.3050						1,108.2930
Total	0.6040	3.0212	4.7786	0.0174		0.0221	1.2999		0.0208	0.3633						1,783.0418

Arts Club
CalEEMod Output - Construction

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	2.2717	18.1612	16.4969	0.0272		0.9895	0.9895		0.9479	0.9479							2,548.1956
Total	2.2717	18.1612	16.4969	0.0272		0.9895	0.9895		0.9479	0.9479							2,548.1956

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
Vendor	0.0930	2.6588	0.7685	6.3100e-003		0.0127	0.1728		0.0122	0.0582							674.7488
Worker	0.5110	0.3625	4.0101	0.0111		9.3400e-003	1.1271		8.6100e-003	0.3050							1,108.2930
Total	0.6040	3.0212	4.7786	0.0174		0.0221	1.2999		0.0208	0.3633							1,783.0418

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

Arts Club
CalEEMod Output - 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	
Category	lb/day										lb/day						
Archit. Coating	9.5478					0.0000	0.0000		0.0000	0.0000							0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Total	9.5478	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000

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
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000

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
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Arts Club
CalEEMod Output - Construction

Category	lb/day										lb/day					
Archit. Coating	9.5478					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total	9.5478	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000

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
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Worker	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000

3.7 Paving - 2020

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	0.5556	5.6771	6.5126	9.9600e-003		0.3005	0.3005		0.2776	0.2776						953.3531

Arts Club
CalEEMod Output - Construction

Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	0.5556	5.6771	6.5126	9.9600e-003		0.3005	0.3005		0.2776	0.2776						953.3531

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
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Worker	0.2555	0.1812	2.0051	5.5600e-003		4.6700e-003	0.5636		4.3000e-003	0.1525						554.1465
Total	0.2555	0.1812	2.0051	5.5600e-003		4.6700e-003	0.5636		4.3000e-003	0.1525						554.1465

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	0.5556	5.6771	6.5126	9.9600e-003		0.3005	0.3005		0.2776	0.2776						953.3531
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	0.5556	5.6771	6.5126	9.9600e-003		0.3005	0.3005		0.2776	0.2776						953.3531

Arts Club
CalEEMod Output - Construction

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
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.2555	0.1812	2.0051	5.5600e-003		4.6700e-003	0.5636		4.3000e-003	0.1525							554.1465
Total	0.2555	0.1812	2.0051	5.5600e-003		4.6700e-003	0.5636		4.3000e-003	0.1525							554.1465

Arts Club
Construction - LST Calculation

Step 1. Determine Allowable Increase using 98th percentile NO2 and Max NO2 data

NW Coastal NO2 Monitoring Data

SRA	Station	AQMD Design Value 98th %				
		2013-2015	2012	2013	2014	2015
Northwest coast LA County	West LA	50.7	53.6	49	54	49

Threshold (ppb) 100
Allowable Increase (ppb) 49

SRA	Station	Design Value	Max Hourly, ppb			
		2006-2008	2009	2010	2011	2012
Northwest coast LA County	West LA	90	0.077	0.071	0.081	0.061

Threshold (ppb) 180
Allowable Increase (ppb) 90

Max Hourly vs. 98th Percentile Ratio (Allowable Increase) 55%

Step 2. Use ratio in Step 1 to determine LST lookup value. Extrapolate/Interpolate LST look-up value for project area

LST Threshold (SRA 2, 25 meter receptor)

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	Construction		Operations	
				PM10 (lbs/day)	PM2.5 (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)
1	103	56	562	4	3	1	1

Arts Club

Draft EIR

Appendix B

Air Quality and Greenhouse Gas Worksheets and
Modeling Output Files

- Appendix B.2: Operational Emissions Inventory
 - CalEEMod Outputs – Operations (Baseline and Project)
 - Baseline (Existing)
 - Baseline (Buildout Year)
 - Buildout

Arts Club - Baseline (Buildout Year) - Los Angeles-South Coast County, Winter

Arts Club - Baseline (Buildout Year)
Los Angeles-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	5.00	1000sqft	0.11	5,000.00	0
Enclosed Parking with Elevator	89.00	Space	0.80	35,600.00	0
Parking Lot	17.00	Space	0.15	6,800.00	0
Health Club	5.25	1000sqft	0.12	5,250.00	0
Strip Mall	9.25	1000sqft	0.21	9,250.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS
Land Use - Existing uses
Construction Phase -
Off-road Equipment -

Arts Club
CalEEMod Output - Operations (Existing)

Trips and VMT -

Vehicle Trips - Traffic Study

Energy Use - Historical

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	3.92	0.35
tblProjectCharacteristics	CO2IntensityFactor	702.44	630.89
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleTrips	ST_TR	2.46	8.04
tblVehicleTrips	ST_TR	20.87	30.42
tblVehicleTrips	ST_TR	42.04	40.88
tblVehicleTrips	SU_TR	1.05	6.82
tblVehicleTrips	SU_TR	26.73	25.79
tblVehicleTrips	SU_TR	20.43	34.65
tblVehicleTrips	WD_TR	11.03	7.40
tblVehicleTrips	WD_TR	32.93	28.00
tblVehicleTrips	WD_TR	44.32	37.62

2.0 Emissions Summary

Arts Club
CalEEMod Output - Operations (Existing)

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	0.4551	1.2000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005							0.0293
Energy	5.4100e-003	0.0492	0.0413	2.9000e-004		3.7400e-003	3.7400e-003		3.7400e-003	3.7400e-003							59.3303
Mobile	0.9671	4.3667	10.7145	0.0322	2.5316	0.0344	2.5660	0.6776	0.0323	0.7098							3,277.9733
Total	1.4276	4.4160	10.7687	0.0325	2.5316	0.0382	2.5698	0.6776	0.0361	0.7136							3,337.3330

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	0.4551	1.2000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005							0.0293
Energy	5.4100e-003	0.0492	0.0413	2.9000e-004		3.7400e-003	3.7400e-003		3.7400e-003	3.7400e-003							59.3303
Mobile	0.9671	4.3667	10.7145	0.0322	2.5316	0.0344	2.5660	0.6776	0.0323	0.7098							3,277.9733
Total	1.4276	4.4160	10.7687	0.0325	2.5316	0.0382	2.5698	0.6776	0.0361	0.7136							3,337.3330

ROG	NOx	CO	SO2	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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Arts Club
CalEEMod Output - Operations (Existing)

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
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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	
Category	lb/day										lb/day						
Mitigated	0.9671	4.3667	10.7145	0.0322	2.5316	0.0344	2.5660	0.6776	0.0323	0.7098							3,277.973 3
Unmitigated	0.9671	4.3667	10.7145	0.0322	2.5316	0.0344	2.5660	0.6776	0.0323	0.7098							3,277.973 3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	37.00	40.20	34.10	119,332	119,332
Health Club	147.00	159.71	135.40	314,736	314,736
Parking Lot	0.00	0.00	0.00		
Strip Mall	347.99	378.14	320.51	662,804	662,804
Total	531.99	578.05	490.01	1,096,872	1,096,872

4.3 Trip Type Information

Arts Club
CalEEMod Output - Operations (Existing)

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Enclosed Parking with Elevator	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Parking Lot	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Health Club	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Strip Mall	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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
NaturalGas Mitigated	5.4100e-003	0.0492	0.0413	2.9000e-004		3.7400e-003	3.7400e-003		3.7400e-003	3.7400e-003						59.3303

Arts Club
CalEEMod Output - Operations (Existing)

Natural Gas Unmitigated	5.4100e-003	0.0492	0.0413	2.9000e-004		3.7400e-003	3.7400e-003		3.7400e-003	3.7400e-003							59.3303
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5.2 Energy by Land Use - Natural Gas

Unmitigated

	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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
General Office Building	170.411	1.8400e-003	0.0167	0.0140	1.0000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003						20.1675
Health Club	284.795	3.0700e-003	0.0279	0.0235	1.7000e-004		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003						33.7043
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Strip Mall	46.1233	5.0000e-004	4.5200e-003	3.8000e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004						5.4585
Total		5.4100e-003	0.0492	0.0413	3.0000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003						59.3303

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000

**Arts Club
CalEEMod Output - Operations (Existing)**

General Office Building	0.170411	1.8400e-003	0.0167	0.0140	1.0000e-004		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003						20.1675
Health Club	0.284795	3.0700e-003	0.0279	0.0235	1.7000e-004		2.1200e-003	2.1200e-003		2.1200e-003	2.1200e-003						33.7043
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Strip Mall	0.0461233	5.0000e-004	4.5200e-003	3.8000e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004						5.4585
Total		5.4100e-003	0.0492	0.0413	3.0000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003						59.3303

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	0.4551	1.2000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005							0.0293
Unmitigated	0.4551	1.2000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005							0.0293

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
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Arts Club
CalEEMod Output - Operations (Existing)

SubCategory	lb/day										lb/day					
Architectural Coating	0.0528					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.4011					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	1.2100e-003	1.2000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005						0.0293
Total	0.4551	1.2000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005						0.0293

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	0.0528					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	0.4011					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	1.2100e-003	1.2000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005							0.0293
Total	0.4551	1.2000e-004	0.0129	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005							0.0293

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

Arts Club - Buildout with Project Design Features - Los Angeles-South Coast County, Winter

Arts Club - Buildout with Project Design Features
Los Angeles-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	46.01	1000sqft	0.00	46,010.00	0
Enclosed Parking with Elevator	97.50	1000sqft	2.24	97,500.00	0
Health Club	74.06	1000sqft	0.46	74,060.00	0
Strip Mall	11.93	1000sqft	0.00	11,930.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS Standards

Land Use - Site specific.

Construction Phase - Project specific

Off-road Equipment - Demo

Off-road Equipment - Arch Coating

Arts Club
CalEEMod Output - Operations (Project - 2020)

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Trips and VMT - Site specific.

Demolition -

Grading -

Vehicle Trips - Based on traffic study

Energy Use - 2016 Title 24

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - none

Stationary Sources - Emergency Generators and Fire Pumps - diesel generator

Stationary Sources - Emergency Generators and Fire Pumps EF - Consistency with SCAQMD BACT Requirements

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	10.00	131.00
tblConstructionPhase	NumDays	220.00	500.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	6.00	65.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	3.00	110.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	7/31/2019	8/31/2020
tblConstructionPhase	PhaseEndDate	11/30/2018	7/31/2020
tblConstructionPhase	PhaseEndDate	2/15/2017	1/15/2018

Arts Club
CalEEMod Output - Operations (Project - 2020)

tblConstructionPhase	PhaseEndDate	8/31/2017	3/31/2018
tblConstructionPhase	PhaseEndDate	7/2/2019	8/31/2020
tblConstructionPhase	PhaseEndDate	7/4/2017	8/31/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	3/1/2020
tblConstructionPhase	PhaseStartDate	9/1/2017	9/1/2018
tblConstructionPhase	PhaseStartDate	1/1/2017	12/1/2017
tblConstructionPhase	PhaseStartDate	7/5/2017	1/16/2018
tblConstructionPhase	PhaseStartDate	12/1/2018	8/1/2020
tblConstructionPhase	PhaseStartDate	2/16/2017	4/1/2018
tblEnergyUse	LightingElect	2.63	2.33
tblEnergyUse	T24E	3.92	0.42
tblEnergyUse	T24E	4.82	4.58
tblEnergyUse	T24E	2.36	2.24
tblEnergyUse	T24E	4.20	3.99
tblGrading	MaterialExported	0.00	48,000.00
tblLandUse	LotAcreage	1.06	0.00
tblLandUse	LotAcreage	1.70	0.46
tblLandUse	LotAcreage	0.27	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps

Arts Club
CalEEMod Output - Operations (Project - 2020)

tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	630.89
tblProjectCharacteristics	OperationalYear	2018	2020
tblStationaryGeneratorsPumpsEF	NOX_EF	2.85	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	3.1000e-004
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	670.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00

Arts Club
CalEEMod Output - Operations (Project - 2020)

tblTripsAndVMT	HaulingTripNumber	256.00	825.00
tblTripsAndVMT	HaulingTripNumber	6,000.00	3,429.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	38.00	25.00
tblTripsAndVMT	WorkerTripNumber	10.00	42.00
tblTripsAndVMT	WorkerTripNumber	13.00	50.00
tblTripsAndVMT	WorkerTripNumber	15.00	100.00
tblTripsAndVMT	WorkerTripNumber	91.00	100.00
tblTripsAndVMT	WorkerTripNumber	10.00	50.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	ST_TR	2.46	2.02
tblVehicleTrips	ST_TR	20.87	15.73
tblVehicleTrips	ST_TR	42.04	17.81
tblVehicleTrips	SU_TR	1.05	0.83
tblVehicleTrips	SU_TR	26.73	20.15
tblVehicleTrips	SU_TR	20.43	8.65
tblVehicleTrips	WD_TR	11.03	9.37
tblVehicleTrips	WD_TR	32.93	24.82
tblVehicleTrips	WD_TR	44.32	18.77

2.0 Emissions Summary

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

Arts Club
CalEEMod Output - Operations (Project - 2020)

Category	lb/day										lb/day						
Area	2.9930	2.2000e-004	0.0236	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005							0.0536
Energy	0.0545	0.4958	0.4165	2.9700e-003		0.0377	0.0377		0.0377	0.0377							598.5005
Mobile	4.3394	20.0105	50.2461	0.1541		0.1641	12.3834		0.1538	3.4243							15,689.2530
Stationary	0.0758	0.2696	1.4018	2.6400e-003		0.0108	0.0108		0.0108	0.0108							282.2230
Total	7.4628	20.7761	52.0879	0.1597		0.2126	12.4320		0.2024	3.4728							16,570.0301

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	2.9930	2.2000e-004	0.0236	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005							0.0536
Energy	0.0479	0.4357	0.3660	2.6100e-003		0.0331	0.0331		0.0331	0.0331							525.9111
Mobile	4.3394	20.0105	50.2461	0.1541		0.1641	12.3834		0.1538	3.4243							15,689.2530
Stationary	0.0758	0.2696	1.4018	2.6400e-003		0.0108	0.0108		0.0108	0.0108							282.2230
Total	7.4562	20.7160	52.0374	0.1594		0.2081	12.4274		0.1978	3.4682							16,497.4406

	ROG	NOx	CO	SO2	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	0.09	0.29	0.10	0.23	0.00	2.15	0.04	0.00	2.26	0.13	0.00	0.00	0.00	0.00	0.00	0.44

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	
Category	lb/day										lb/day						
Mitigated	4.3394	20.0105	50.2461	0.1541		0.1641	12.3834		0.1538	3.4243							15,689.25 30
Unmitigated	4.3394	20.0105	50.2461	0.1541		0.1641	12.3834		0.1538	3.4243							15,689.25 30

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	431.11	92.94	38.19	1,052,358	1,052,358
Health Club	1,838.17	1,164.96	1492.31	3,620,059	3,620,059
Strip Mall	223.93	212.47	103.19	390,113	390,113
Total	2,493.21	1,470.38	1,633.69	5,062,530	5,062,530

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9

Arts Club
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Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Enclosed Parking with Elevator	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Health Club	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Strip Mall	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	0.0479	0.4357	0.3660	2.6100e-003		0.0331	0.0331		0.0331	0.0331						525.9111
NaturalGas Unmitigated	0.0545	0.4958	0.4165	2.9700e-003		0.0377	0.0377		0.0377	0.0377						598.5005

5.2 Energy by Land Use - NaturalGas

Arts Club
CalEEMod Output - Operations (Project - 2020)

Unmitigated

	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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
General Office Building	1318.53	0.0142	0.1293	0.1086	7.8000e-004		9.8200e-003	9.8200e-003		9.8200e-003	9.8200e-003						156.0434
Health Club	3684.74	0.0397	0.3613	0.3035	2.1700e-003		0.0275	0.0275		0.0275	0.0275						436.0747
Strip Mall	53.9301	5.8000e-004	5.2900e-003	4.4400e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004						6.3824
Total		0.0545	0.4958	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377						598.5005

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
General Office Building	1.12813	0.0122	0.1106	0.0929	6.6000e-004		8.4100e-003	8.4100e-003		8.4100e-003	8.4100e-003						133.5096
Health Club	3.26747	0.0352	0.3203	0.2691	1.9200e-003		0.0244	0.0244		0.0244	0.0244						386.6922
Strip Mall	0.048243	5.2000e-004	4.7300e-003	3.9700e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004						5.7094
Total		0.0479	0.4357	0.3660	2.6100e-003		0.0331	0.0331		0.0331	0.0331						525.9111

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	2.9930	2.2000e-004	0.0236	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005							0.0536
Unmitigated	2.9930	2.2000e-004	0.0236	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005							0.0536

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	0.3427					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	2.6481					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	2.2200e-003	2.2000e-004	0.0236	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005							0.0536
Total	2.9930	2.2000e-004	0.0236	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005							0.0536

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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	0.3427					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	2.6481					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	2.2200e-003	2.2000e-004	0.0236	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005							0.0536
Total	2.9930	2.2000e-004	0.0236	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005							0.0536

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

Arts Club
CalEEMod Output - Operations (Project - 2020)

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	12	670	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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	
Equipment Type	lb/day										lb/day						
Emergency Generator - Diesel (600 - 750 HP)	0.0758	0.2696	1.4018	2.6400e-003		0.0108	0.0108		0.0108	0.0108							282.2230
Total	0.0758	0.2696	1.4018	2.6400e-003		0.0108	0.0108		0.0108	0.0108							282.2230

11.0 Vegetation

Buildout (2016) - Los Angeles-South Coast County, Winter

Buildout (2016)
Los Angeles-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	46.01	1000sqft	1.06	46,010.00	0
Enclosed Parking with Elevator	97.50	1000sqft	2.24	97,500.00	0
Health Club	74.06	1000sqft	1.70	74,060.00	0
Strip Mall	11.93	1000sqft	0.27	11,930.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2016
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use -
 Vehicle Trips - Traffic Study
 Energy Use - parking structure
 Energy Mitigation -

Arts Club
CalEEMod Output - Operations (Project - 2016)

Water Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - eg

Stationary Sources - Emergency Generators and Fire Pumps EF - eg

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	3.92	0.42
tblProjectCharacteristics	OperationalYear	2018	2016
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	2.46	2.02
tblVehicleTrips	ST_TR	20.87	15.73
tblVehicleTrips	ST_TR	42.04	17.81
tblVehicleTrips	SU_TR	1.05	0.83
tblVehicleTrips	SU_TR	26.73	20.15
tblVehicleTrips	SU_TR	20.43	8.65
tblVehicleTrips	WD_TR	11.03	9.37
tblVehicleTrips	WD_TR	32.93	24.82
tblVehicleTrips	WD_TR	44.32	18.77

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

Arts Club
CalEEMod Output - Operations (Project - 2016)

	ROG	NOx	CO	SO2	Fugitive 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	2.9932	2.3000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0502	0.0502	1.4000e-004		0.0538
Energy	0.0545	0.4958	0.4165	2.9700e-003		0.0377	0.0377		0.0377	0.0377		594.9649	594.9649	0.0114	0.0109	598.5005
Mobile	6.5920	26.2791	76.5047	0.1689	12.2274	0.2753	12.5027	3.2744	0.2601	3.5345		17,097.2596	17,097.2596	1.2862		17,129.4150
Stationary	0.5498	1.5366	1.4018	2.6400e-003		0.0809	0.0809		0.0809	0.0809		281.2372	281.2372	0.0394		282.2230
Total	10.1895	28.3117	78.3469	0.1745	12.2274	0.3940	12.6213	3.2744	0.3788	3.6531		17,973.5120	17,973.5120	1.3372	0.0109	18,010.1923

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	2.9932	2.3000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0502	0.0502	1.4000e-004		0.0538
Energy	0.0479	0.4357	0.3660	2.6100e-003		0.0331	0.0331		0.0331	0.0331		522.8043	522.8043	0.0100	9.5800e-003	525.9111
Mobile	6.5920	26.2791	76.5047	0.1689	12.2274	0.2753	12.5027	3.2744	0.2601	3.5345		17,097.2596	17,097.2596	1.2862		17,129.4150
Stationary	0.5498	1.5366	1.4018	2.6400e-003		0.0809	0.0809		0.0809	0.0809		281.2372	281.2372	0.0394		282.2230
Total	10.1829	28.2515	78.2964	0.1742	12.2274	0.3894	12.6168	3.2744	0.3742	3.6486		17,901.3513	17,901.3513	1.3358	9.5800e-003	17,937.6028

	ROG	NOx	CO	SO2	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	0.06	0.21	0.06	0.21	0.00	1.16	0.04	0.00	1.21	0.13	0.00	0.40	0.40	0.10	12.19	0.40

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
Category	lb/day										lb/day					
Mitigated	6.5920	26.2791	76.5047	0.1689	12.2274	0.2753	12.5027	3.2744	0.2601	3.5345		17,097.2596	17,097.2596	1.2862		17,129.4150
Unmitigated	6.5920	26.2791	76.5047	0.1689	12.2274	0.2753	12.5027	3.2744	0.2601	3.5345		17,097.2596	17,097.2596	1.2862		17,129.4150

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	431.11	92.94	38.19	1,052,358	1,052,358
Health Club	1,838.17	1,164.96	1492.31	3,620,059	3,620,059
Strip Mall	223.93	212.47	103.19	390,113	390,113
Total	2,493.21	1,470.38	1,633.69	5,062,530	5,062,530

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

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Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Enclosed Parking with Elevator	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Health Club	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Strip Mall	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	0.0479	0.4357	0.3660	2.6100e-003		0.0331	0.0331		0.0331	0.0331		522.8043	522.8043	0.0100	9.5800e-003	525.9111
NaturalGas Unmitigated	0.0545	0.4958	0.4165	2.9700e-003		0.0377	0.0377		0.0377	0.0377		594.9649	594.9649	0.0114	0.0109	598.5005

5.2 Energy by Land Use - NaturalGas

Arts Club
CalEEMod Output - Operations (Project - 2016)

Unmitigated

	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					
Enclosed Parking with Elevator	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	1318.53	0.0142	0.1293	0.1086	7.8000e-004		9.8200e-003	9.8200e-003		9.8200e-003	9.8200e-003		155.1216	155.1216	2.9700e-003	2.8400e-003	156.0434
Health Club	3684.74	0.0397	0.3613	0.3035	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.4987	433.4987	8.3100e-003	7.9500e-003	436.0747
Strip Mall	53.9301	5.8000e-004	5.2900e-003	4.4400e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004		6.3447	6.3447	1.2000e-004	1.2000e-004	6.3824
Total		0.0545	0.4958	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		594.9649	594.9649	0.0114	0.0109	598.5005

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	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	1.12813	0.0122	0.1106	0.0929	6.6000e-004		8.4100e-003	8.4100e-003		8.4100e-003	8.4100e-003		132.7209	132.7209	2.5400e-003	2.4300e-003	133.5096
Health Club	3.26747	0.0352	0.3203	0.2691	1.9200e-003		0.0244	0.0244		0.0244	0.0244		384.4078	384.4078	7.3700e-003	7.0500e-003	386.6922
Strip Mall	0.048243	5.2000e-004	4.7300e-003	3.9700e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004		5.6756	5.6756	1.1000e-004	1.0000e-004	5.7094
Total		0.0479	0.4357	0.3660	2.6100e-003		0.0331	0.0331		0.0331	0.0331		522.8043	522.8043	0.0100	9.5800e-003	525.9111

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	2.9932	2.3000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0502	0.0502	1.4000e-004		0.0538
Unmitigated	2.9932	2.3000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0502	0.0502	1.4000e-004		0.0538

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	0.3427					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6481					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3400e-003	2.3000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0502	0.0502	1.4000e-004		0.0538
Total	2.9931	2.3000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0502	0.0502	1.4000e-004		0.0538

Arts Club
CalEEMod Output - Operations (Project - 2016)

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	0.3427					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6481					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3400e-003	2.3000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0502	0.0502	1.4000e-004		0.0538
Total	2.9931	2.3000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0502	0.0502	1.4000e-004		0.0538

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Arts Club
CalEEMod Output - Operations (Project - 2016)

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	12	670	0.73	Diesel

Boilers

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

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (600 - 750 HP)	0.5498	1.5366	1.4018	2.6400e-003		0.0809	0.0809		0.0809	0.0809		281.2372	281.2372	0.0394		282.2230
Total	0.5498	1.5366	1.4018	2.6400e-003		0.0809	0.0809		0.0809	0.0809		281.2372	281.2372	0.0394		282.2230

11.0 Vegetation

Arts Club

Draft EIR

Appendix B

Air Quality and Greenhouse Gas Worksheets and
Modeling Output Files

- Appendix B.3: GHG Modeling Parameters and Summary of Emissions
 - GHG Parameters and Summary
 - CalEEMod Outputs
 - Construction Annual
 - Baseline (Existing); Baseline (Buildout Year); Buildout

Arts Club
Greenhouse Gas Emissions Assumptions

	Quantity	Daily	Internal Capture	Transit	TDM	Total Daily Trips		Trip Rate Daily Trips		CalEEMod			Adjustment Factor for Project		NIERM			
						NEIRM	Project	NEIRM	Project	Weekday	Saturday	Sunday	Sat	Sun	Sat	Sun		
Existing (Daily Trip Generation)																		
Health Club/Gym		5.25	173	0	26	0		147		28.00								
Office		5	44	0	7	0		37		7.40								
Retail		9.25	410	0	62	0		348		37.62								
Total			627		95			532										
Project (Daily Trip Generation)																		
Health Club/Gym		74.06	2,079	0	241	0	2,079	1838		28.07		24.82				0.85	17.79	22.79
Office		46.01	507	0	76	0	507	431		11.02		9.37				1.00	2.37	0.98
Retail		11.93	529	265	40	0	529	224		44.33		18.77				1.00	42.05	20.44
Underground Parking (sq ft)		97.50					3,115	2,493										
Total:							1,961	1,961					Total:	1,470	1,637			

Adjustments to Energy Factors to account for Title 24 2013 and 2016 requirements.
2016 savings equal 28% for Residential and 5% for Nonresidential for electricity

EnergyUseLandUseSubType	CalEEMod Default				Adjusted to Account for 2016 Title 24 Standards					
	T24E	NT24E	LightingEle	T24NG	NT24NG					
Enclosed Parking with Elevator	3.92	0.19	2.63	0	0	0.42	0.19	2.33	0.00	0.00
General Office Building	4.82196	4.62	3.88	10.0657	0.39	4.58	4.62	3.88	10.07	0.39
Health Club	2.3595	5.75	3.2	13.7138	4.45	2.24	5.75	3.20	13.71	4.45
Strip Mall	4.2042	3.23	6.43	1.55	0.49	3.99	3.23	6.43	1.55	0.49

Consistent with Section 120.6(c), Mandatory Requirements for Enclosed Parking Garages, the ventilation rate shall be at least 0.15 cfm/sq f when the garage is scheduled to be occupied.

Parking Garage Ventilation	
Square Footage =	97495.6723 ft2
Minimum Ventilation =	0.15 cfm/ft2
Flowrate =	14624.3508 cfm
Number of Fans (15,000 cfm)	1.0 fans
Number of Fans	1 fans
Horsepower per Fan	10.75 hp
Horsepower to kW Conv.	0.746 kW per hp
Total kW =	8.0195
Annual kW =	35125.41 conservatively assumes operational 50 percent of the time even though it would only be operational when CO sensors read CO concentrations in excess of 25 ppm (2013 Building Energy Efficiency Stanards)
Usage Rate:	0.36 kWh/sq ft annual
Adjustment:	0.42 (CalEEMod applies mitigation to all land uses. So, this adjustment accounts for the 15% reduction in Title 24 standards associated with the Project)

Parking Garage Lighting	
Square Footage =	97495.6723 ft2
Allowed Lighting Power =	0.2 watts per ft2 (Table 140.6 (Complete Building Method Lighting Power Density Value) of the 2013 Building Energy Efficiency Standards)
Annual kW =	170812.418 conservatively assumes maximum lighting power 24 hours per day)
Annual kW/sq ft =	1.752 kWh/sq ft annual
Adjustment:	2.336 (CalEEMod applies mitigation to all land uses. So, this adjustment accounts for the 25% reduction in lighting associated with CalGreen)

Elevator (no change CalEEMod Default)	0.19 kWh/sq ft annual
Total Annual Energy for Parking Garage:	281,399 kW/Yr
	1kW per retrieval
Automated Parking Sytem Energy Usage:	
Annual Trips:	566,784 Daily trips are calculated above and assume an average day is 70% of peak
	1 Electricity consumption per one cycle, which includes parking and the retrieval of vehicle, is an averaging 1 kW (ParkMatik: http://pmatik.com/content/110#2)
Total Annual Energy for Parking System:	283,392 kW/Yr
% Difference:	0.7%

Arts Club - Buildout with Project Design Features - Los Angeles-South Coast County, Annual

Arts Club - Buildout with Project Design Features
Los Angeles-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	46.01	1000sqft	0.00	46,010.00	0
Enclosed Parking with Elevator	97.50	1000sqft	2.24	97,500.00	0
Health Club	74.06	1000sqft	0.46	74,060.00	0
Strip Mall	11.93	1000sqft	0.00	11,930.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS Standards

Land Use - Site specific.

Construction Phase - Project specific

Off-road Equipment - Demo

Off-road Equipment - Arch Coating

Arts Club
CalEEMod Output - Construction (Annual GHG)

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Trips and VMT - Site specific.

Demolition -

Grading -

Vehicle Trips - Based on traffic study

Energy Use - 2016 Title 24

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - none

Stationary Sources - Emergency Generators and Fire Pumps - diesel generator

Stationary Sources - Emergency Generators and Fire Pumps EF - Consistency with SCAQMD BACT Requirements

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	10.00	131.00
tblConstructionPhase	NumDays	220.00	500.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	6.00	65.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	3.00	110.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	7/31/2019	8/31/2020
tblConstructionPhase	PhaseEndDate	11/30/2018	7/31/2020
tblConstructionPhase	PhaseEndDate	2/15/2017	1/15/2018

Arts Club
CalEEMod Output - Construction (Annual GHG)

tblConstructionPhase	PhaseEndDate	8/31/2017	3/31/2018
tblConstructionPhase	PhaseEndDate	7/2/2019	8/31/2020
tblConstructionPhase	PhaseEndDate	7/4/2017	8/31/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	3/1/2020
tblConstructionPhase	PhaseStartDate	9/1/2017	9/1/2018
tblConstructionPhase	PhaseStartDate	1/1/2017	12/1/2017
tblConstructionPhase	PhaseStartDate	7/5/2017	1/16/2018
tblConstructionPhase	PhaseStartDate	12/1/2018	8/1/2020
tblConstructionPhase	PhaseStartDate	2/16/2017	4/1/2018
tblEnergyUse	LightingElect	2.63	2.33
tblEnergyUse	T24E	3.92	0.42
tblEnergyUse	T24E	4.82	4.58
tblEnergyUse	T24E	2.36	2.24
tblEnergyUse	T24E	4.20	3.99
tblGrading	MaterialExported	0.00	48,000.00
tblLandUse	LotAcreage	1.06	0.00
tblLandUse	LotAcreage	1.70	0.46
tblLandUse	LotAcreage	0.27	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps

Arts Club
CalEEMod Output - Construction (Annual GHG)

tblOffRoadEquipment	OffRoadEquipmentType			Welders
tblOffRoadEquipment	OffRoadEquipmentType			Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType			Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType			Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00		0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00		0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00		2.00
tblProjectCharacteristics	CO2IntensityFactor	702.44		630.89
tblProjectCharacteristics	OperationalYear	2018		2020
tblStationaryGeneratorsPumpsEF	NOX_EF	2.85		0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15		0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15		0.02
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003		3.1000e-004
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00		670.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00		0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00		12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00		1.00
tblTripsAndVMT	HaulingTripLength	20.00		40.00
tblTripsAndVMT	HaulingTripLength	20.00		40.00

Arts Club
CalEEMod Output - Construction (Annual GHG)

tblTripsAndVMT	HaulingTripNumber	256.00	825.00
tblTripsAndVMT	HaulingTripNumber	6,000.00	3,429.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	38.00	25.00
tblTripsAndVMT	WorkerTripNumber	10.00	42.00
tblTripsAndVMT	WorkerTripNumber	13.00	50.00
tblTripsAndVMT	WorkerTripNumber	15.00	100.00
tblTripsAndVMT	WorkerTripNumber	91.00	100.00
tblTripsAndVMT	WorkerTripNumber	10.00	50.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	ST_TR	2.46	2.02
tblVehicleTrips	ST_TR	20.87	15.73
tblVehicleTrips	ST_TR	42.04	17.81
tblVehicleTrips	SU_TR	1.05	0.83
tblVehicleTrips	SU_TR	26.73	20.15
tblVehicleTrips	SU_TR	20.43	8.65
tblVehicleTrips	WD_TR	11.03	9.37
tblVehicleTrips	WD_TR	32.93	24.82
tblVehicleTrips	WD_TR	44.32	18.77

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

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

Arts Club
CalEEMod Output - Construction (Annual GHG)

Year	tons/yr										MT/yr						
2017																	65.5866
2018																	760.6549
2019																	524.6243
2020																	317.0731
Maximum																	760.6549

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						
2017																	65.5866
2018																	760.6545
2019																	524.6240
2020																	317.0729
Maximum																	760.6545

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	10-1-2017	12-31-2017	0.4737	0.4737

Arts Club
CalEEMod Output - Construction (Annual GHG)

5	1-1-2018	3-31-2018	1.8533	1.8533
7	7-1-2018	9-30-2018	0.3073	0.3073
8	10-1-2018	12-31-2018	0.9460	0.9460
9	1-1-2019	3-31-2019	0.8438	0.8438
10	4-1-2019	6-30-2019	0.8498	0.8498
11	7-1-2019	9-30-2019	0.8592	0.8592
12	10-1-2019	12-31-2019	0.8625	0.8625
13	1-1-2020	3-31-2020	0.8876	0.8876
14	4-1-2020	6-30-2020	1.0893	1.0893
15	7-1-2020	9-30-2020	0.5501	0.5501
		Highest	1.8533	1.8533

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/1/2017	1/15/2018	5	32	
2	Grading	Grading	1/16/2018	3/31/2018	6	65	
3	Foundation to Street Level	Site Preparation	4/1/2018	8/31/2018	5	110	
4	Building Construction	Building Construction	9/1/2018	7/31/2020	5	500	
5	Architectural Coating	Architectural Coating	3/1/2020	8/31/2020	5	131	
6	Paving	Paving	8/1/2020	8/31/2020	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 198,000; Non-Residential Outdoor: 66,000; Striped Parking Area:

Arts Club
CalEEMod Output - Construction (Annual GHG)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Generator Sets	0	8.00	84	0.74
Foundation to Street Level	Scrapers	0	8.00	367	0.48
Grading	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Cranes	1	8.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Pumps	1	8.00	84	0.74
Foundation to Street Level	Cement and Mortar Mixers	1	8.00	9	0.56
Foundation to Street Level	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Graders	0	8.00	187	0.41
Foundation to Street Level	Cranes	1	8.00	231	0.29
Foundation to Street Level	Plate Compactors	1	8.00	8	0.43
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Foundation to Street Level	Pumps	1	8.00	84	0.74
Foundation to Street Level	Welders	1	8.00	46	0.45
Building Construction	Aerial Lifts	2	8.00	63	0.31
Foundation to Street Level	Graders	0	8.00	187	0.41
Building Construction	Air Compressors	2	8.00	78	0.48
Paving	Skid Steer Loaders	1	8.00	65	0.37
Foundation to Street Level	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20

Arts Club
CalEEMod Output - Construction (Annual GHG)

Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	0	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
Demolition	4	42.00	0.00	825.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Grading	5	50.00	0.00	3,429.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Foundation to Street Level	6	100.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	100.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2017

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

Arts Club
CalEEMod Output - Construction (Annual GHG)

Category	tons/yr										MT/yr					
Fugitive Dust																0.0000
Off-Road																20.1561
Total																20.1561

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																	40.4883
Vendor																	0.0000
Worker																	4.9421
Total																	45.4305

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																	0.0000

Arts Club
CalEEMod Output - Construction (Annual GHG)

Off-Road																	20.1561
Total																	20.1561

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																	40.4883
Vendor																	0.0000
Worker																	4.9421
Total																	45.4305

3.2 Demolition - 2018

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																	0.0000
Off-Road																	10.4336
Total																	10.4336

Arts Club
CalEEMod Output - Construction (Annual GHG)

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																20.9963
Vendor																0.0000
Worker																2.5175
Total																23.5137

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																0.0000
Off-Road																10.4336
Total																10.4336

Mitigated Construction Off-Site

Arts Club
CalEEMod Output - Construction (Annual GHG)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling																20.9963
Vendor																0.0000
Worker																2.5175
Total																23.5137

3.3 Grading - 2018

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																0.0000
Off-Road																80.1725
Total																80.1725

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

Arts Club
CalEEMod Output - Construction (Annual GHG)

Category	tons/yr										MT/yr						
Hauling																	253.8706
Vendor																	0.0000
Worker																	17.7096
Total																	271.5802

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																	0.0000
Off-Road																	80.1724
Total																	80.1724

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																	253.8706

Arts Club
CalEEMod Output - Construction (Annual GHG)

Vendor																	0.0000
Worker																	17.7096
Total																	271.5802

3.4 Foundation to Street Level - 2018

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																	0.0000
Off-Road																	104.6217
Total																	104.6217

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
Vendor																	34.8012
Worker																	59.9400

Arts Club
CalEEMod Output - Construction (Annual GHG)

Total																	94.7412
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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						
Fugitive Dust																	0.0000
Off-Road																	104.6216
Total																	104.6216

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
Vendor																	34.8012
Worker																	59.9400
Total																	94.7412

3.5 Building Construction - 2018

Arts Club
CalEEMod Output - Construction (Annual GHG)

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																	101.5217
Total																	101.5217

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
Vendor																	27.2082
Worker																	46.8622
Total																	74.0704

Mitigated Construction On-Site

Arts Club
CalEEMod Output - Construction (Annual GHG)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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																101.5215
Total																101.5215

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
Vendor																27.2082
Worker																46.8622
Total																74.0704

3.5 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					

Arts Club
CalEEMod Output - Construction (Annual GHG)

Off-Road																	305.3233
Total																	305.3233

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
Vendor																	81.7197
Worker																	137.5813
Total																	219.3010

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																	305.3230
Total																	305.3230

Arts Club
CalEEMod Output - Construction (Annual GHG)

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
Vendor																81.7197
Worker																137.5813
Total																219.3010

3.5 Building Construction - 2020

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																176.8438
Total																176.8438

Arts Club
CalEEMod Output - Construction (Annual GHG)

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
Vendor																	47.5870
Worker																	78.1949
Total																	125.7819

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																	176.8436
Total																	176.8436

Mitigated Construction Off-Site

Arts Club
CalEEMod Output - Construction (Annual GHG)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive 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
Vendor																47.5870
Worker																78.1949
Total																125.7819

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating																0.0000
Off-Road																0.0000
Total																0.0000

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					

Arts Club
CalEEMod Output - Construction (Annual GHG)

Hauling																	0.0000
Vendor																	0.0000
Worker																	0.0000
Total																	0.0000

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating																	0.0000
Off-Road																	0.0000
Total																	0.0000

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
Vendor																	0.0000

Arts Club
CalEEMod Output - Construction (Annual GHG)

Worker																		0.0000
Total																		0.0000

3.7 Paving - 2020

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																	9.0811
Paving																	0.0000
Total																	9.0811

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
Vendor																	0.0000
Worker																	5.3663
Total																	5.3663

Arts Club
CalEEMod Output - Construction (Annual GHG)

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																	9.0811
Paving																	0.0000
Total																	9.0811

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
Vendor																	0.0000
Worker																	5.3663
Total																	5.3663

Arts Club - Existing (2016) - Los Angeles-South Coast County, Annual

Arts Club - Existing (2016)
Los Angeles-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	5.00	1000sqft	0.11	5,000.00	0
Enclosed Parking with Elevator	89.00	Space	0.80	35,600.00	0
Parking Lot	17.00	Space	0.15	6,800.00	0
Health Club	5.25	1000sqft	0.12	5,250.00	0
Strip Mall	9.25	1000sqft	0.21	9,250.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2016
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS
Land Use - Existing uses
Construction Phase -
Off-road Equipment -

Arts Club
CalEEMod Output - Existing Annual GHG

Trips and VMT -

Vehicle Trips - Traffic Study

Energy Use - Historical

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	3.92	0.35
tblProjectCharacteristics	CO2IntensityFactor	702.44	630.89
tblProjectCharacteristics	OperationalYear	2018	2016
tblVehicleTrips	ST_TR	2.46	8.04
tblVehicleTrips	ST_TR	20.87	30.42
tblVehicleTrips	ST_TR	42.04	40.88
tblVehicleTrips	SU_TR	1.05	6.82
tblVehicleTrips	SU_TR	26.73	25.79
tblVehicleTrips	SU_TR	20.43	34.65
tblVehicleTrips	WD_TR	11.03	7.40
tblVehicleTrips	WD_TR	32.93	28.00
tblVehicleTrips	WD_TR	44.32	37.62

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3400e-003

Arts Club
CalEEMod Output - Existing Annual GHG

Energy												0.0000	126.6642	126.6642	5.5600e-003	1.2900e-003	127.1879
Mobile												0.0000	550.8025	550.8025	0.0414	0.0000	551.8366
Waste												8.9905	0.0000	8.9905	0.5313	0.0000	22.2735
Water												0.5978	10.6932	11.2911	0.0619	1.5500e-003	13.3007
Total												9.5883	688.1631	697.7514	0.6401	2.8400e-003	714.6021

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3400e-003
Energy											0.0000	126.6642	126.6642	5.5600e-003	1.2900e-003	127.1879
Mobile											0.0000	550.8025	550.8025	0.0414	0.0000	551.8366
Waste											8.9905	0.0000	8.9905	0.5313	0.0000	22.2735
Water											0.5978	10.6932	11.2911	0.0619	1.5500e-003	13.3007
Total											9.5883	688.1631	697.7514	0.6401	2.8400e-003	714.6021

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

Arts Club
CalEEMod Output - Existing Annual GHG

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											0.0000	550.8025	550.8025	0.0414	0.0000	551.8366
Unmitigated											0.0000	550.8025	550.8025	0.0414	0.0000	551.8366

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	37.00	40.20	34.10	119,332	119,332
Health Club	147.00	159.71	135.40	314,736	314,736
Parking Lot	0.00	0.00	0.00		
Strip Mall	347.99	378.14	320.51	662,804	662,804
Total	531.99	578.05	490.01	1,096,872	1,096,872

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
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Arts Club
CalEEMod Output - Existing Annual GHG

Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Enclosed Parking with Elevator	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Parking Lot	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Health Club	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994
Strip Mall	0.546581	0.047315	0.196959	0.128768	0.019038	0.005774	0.017712	0.026513	0.002264	0.002897	0.004538	0.000646	0.000994

5.0 Energy Detail

Historical Energy Use: Y

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	116.8995	116.8995	5.3700e-003	1.1100e-003	117.3651
Electricity Unmitigated											0.0000	116.8995	116.8995	5.3700e-003	1.1100e-003	117.3651
NaturalGas Mitigated											0.0000	9.7648	9.7648	1.9000e-004	1.8000e-004	9.8228
NaturalGas Unmitigated											0.0000	9.7648	9.7648	1.9000e-004	1.8000e-004	9.8228

5.2 Energy by Land Use - NaturalGas

Arts Club
CalEEMod Output - Existing Annual GHG

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	62200											0.0000	3.3192	3.3192	6.0000e-005	6.0000e-005	3.3390
Health Club	103950											0.0000	5.5472	5.5472	1.1000e-004	1.0000e-004	5.5801
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	16835											0.0000	0.8984	0.8984	2.0000e-005	2.0000e-005	0.9037
Total												0.0000	9.7648	9.7648	1.9000e-004	1.8000e-004	9.8228

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	62200											0.0000	3.3192	3.3192	6.0000e-005	6.0000e-005	3.3390
Health Club	103950											0.0000	5.5472	5.5472	1.1000e-004	1.0000e-004	5.5801
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	16835											0.0000	0.8984	0.8984	2.0000e-005	2.0000e-005	0.9037

Arts Club
CalEEMod Output - Existing Annual GHG

Total												0.0000	9.7648	9.7648	1.9000e-004	1.8000e-004	9.8228
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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				
Enclosed Parking with Elevator	112852	32.2945	1.4800e-003	3.1000e-004	32.4231
General Office Building	76200	21.8059	1.0000e-003	2.1000e-004	21.8928
Health Club	65835	18.8398	8.7000e-004	1.8000e-004	18.9148
Parking Lot	5984	1.7124	8.0000e-005	2.0000e-005	1.7192
Strip Mall	147630	42.2468	1.9400e-003	4.0000e-004	42.4151
Total		116.8995	5.3700e-003	1.1200e-003	117.3651

Mitigated

Electricity Use	Total CO2	CH4	N2O	CO2e	
Land Use	kWh/yr				
	MT/yr				
Enclosed Parking with Elevator	112852	32.2945	1.4800e-003	3.1000e-004	32.4231
General Office Building	76200	21.8059	1.0000e-003	2.1000e-004	21.8928

Arts Club
CalEEMod Output - Existing Annual GHG

Health Club	65835	18.8398	8.7000e-004	1.8000e-004	18.9148
Parking Lot	5984	1.7124	8.0000e-005	2.0000e-005	1.7192
Strip Mall	147630	42.2468	1.9400e-003	4.0000e-004	42.4151
Total		116.8995	5.3700e-003	1.1200e-003	117.3651

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3400e-003
Unmitigated											0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3400e-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					

Arts Club
CalEEMod Output - Existing Annual GHG

Architectural Coating												0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products												0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping												0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3400e-003
Total												0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3400e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3400e-003
Total											0.0000	3.1100e-003	3.1100e-003	1.0000e-005	0.0000	3.3400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
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Arts Club
CalEEMod Output - Existing Annual GHG

Category	MT/yr			
Mitigated	11.2911	0.0619	1.5500e-003	13.3007
Unmitigated	11.2911	0.0619	1.5500e-003	13.3007

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0.888669 / 0.544668	5.3249	0.0292	7.3000e-004	6.2727
Health Club	0.310502 / 0.190307	1.8605	0.0102	2.6000e-004	2.1917
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.685171 / 0.419943	4.1056	0.0225	5.6000e-004	4.8363
Total		11.2911	0.0619	1.5500e-003	13.3007

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e

Arts Club
CalEEMod Output - Existing Annual GHG

Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0.888669 / 0.544668	5.3249	0.0292	7.3000e-004	6.2727
Health Club	0.310502 / 0.190307	1.8605	0.0102	2.6000e-004	2.1917
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.685171 / 0.419943	4.1056	0.0225	5.6000e-004	4.8363
Total		11.2911	0.0619	1.5500e-003	13.3007

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.9905	0.5313	0.0000	22.2735
Unmitigated	8.9905	0.5313	0.0000	22.2735

8.2 Waste by Land Use

Unmitigated

Arts Club
CalEEMod Output - Existing Annual GHG

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Health Club	29.93	6.0755	0.3591	0.0000	15.0518
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	9.71	1.9710	0.1165	0.0000	4.8832
Total		8.9905	0.5313	0.0000	22.2735

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Health Club	29.93	6.0755	0.3591	0.0000	15.0518
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	9.71	1.9710	0.1165	0.0000	4.8832

Arts Club
CalEEMod Output - Existing Annual GHG

Total		8.9905	0.5313	0.0000	22.2735
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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

Arts Club - Baseline (Buildout Year) - Los Angeles-South Coast County, Annual

Arts Club - Baseline (Buildout Year)
Los Angeles-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	5.00	1000sqft	0.11	5,000.00	0
Enclosed Parking with Elevator	89.00	Space	0.80	35,600.00	0
Parking Lot	17.00	Space	0.15	6,800.00	0
Health Club	5.25	1000sqft	0.12	5,250.00	0
Strip Mall	9.25	1000sqft	0.21	9,250.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS
Land Use - Existing uses
Construction Phase -
Off-road Equipment -

Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

Trips and VMT -

Vehicle Trips - Traffic Study

Energy Use - Historical

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	3.92	0.35
tblProjectCharacteristics	CO2IntensityFactor	702.44	630.89
tblProjectCharacteristics	OperationalYear	2018	2020
tblVehicleTrips	ST_TR	2.46	8.04
tblVehicleTrips	ST_TR	20.87	30.42
tblVehicleTrips	ST_TR	42.04	40.88
tblVehicleTrips	SU_TR	1.05	6.82
tblVehicleTrips	SU_TR	26.73	25.79
tblVehicleTrips	SU_TR	20.43	34.65
tblVehicleTrips	WD_TR	11.03	7.40
tblVehicleTrips	WD_TR	32.93	28.00
tblVehicleTrips	WD_TR	44.32	37.62

2.0 Emissions Summary

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

Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

Category	tons/yr										MT/yr						
Area																	3.3200e-003
Energy																	127.1879
Mobile																	556.8276
Waste																	22.2735
Water																	13.3007
Total																	719.5930

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																	3.3200e-003
Energy																	127.1879
Mobile																	556.8276
Waste																	22.2735
Water																	13.3007
Total																	719.5930

ROG	NOx	CO	SO2	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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Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

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
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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
Category	tons/yr										MT/yr					
Mitigated																556.8276
Unmitigated																556.8276

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	37.00	40.20	34.10	119,332	119,332
Health Club	147.00	159.71	135.40	314,736	314,736
Parking Lot	0.00	0.00	0.00		
Strip Mall	347.99	378.14	320.51	662,804	662,804
Total	531.99	578.05	490.01	1,096,872	1,096,872

4.3 Trip Type Information

Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Enclosed Parking with Elevator	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Parking Lot	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Health Club	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Strip Mall	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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
	tons/yr										MT/yr					
Electricity Mitigated																117.3651

Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

Electricity Unmitigated																		117.3651
NaturalGas Mitigated																		9.8228
NaturalGas Unmitigated																		9.8228

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						
Enclosed Parking with Elevator	0																	0.0000
General Office Building	62200																	3.3390
Health Club	103950																	5.5801
Parking Lot	0																	0.0000
Strip Mall	16835																	0.9037
Total																		9.8228

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						

Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

Enclosed Parking with Elevator	0																	0.0000
General Office Building	62200																	3.3390
Health Club	103950																	5.5801
Parking Lot	0																	0.0000
Strip Mall	16835																	0.9037
Total																		9.8228

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	112852				32.4231
General Office Building	76200				21.8928
Health Club	65835				18.9148
Parking Lot	5984				1.7192
Strip Mall	147630				42.4151
Total					117.3651

Mitigated

Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	112852				32.4231
General Office Building	76200				21.8928
Health Club	65835				18.9148
Parking Lot	5984				1.7192
Strip Mall	147630				42.4151
Total					117.3651

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated																3.3200e-003
Unmitigated																3.3200e-003

6.2 Area by SubCategory

Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

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																0.0000
Consumer Products																0.0000
Landscaping																3.3200e-003
Total																3.3200e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating																0.0000
Consumer Products																0.0000
Landscaping																3.3200e-003
Total																3.3200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				13.3007
Unmitigated				13.3007

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0				0.0000
General Office Building	0.888669 / 0.544668				6.2727
Health Club	0.310502 / 0.190307				2.1917
Parking Lot	0 / 0				0.0000
Strip Mall	0.685171 / 0.419943				4.8363
Total					13.3007

Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0				0.0000
General Office Building	0.888669 / 0.544668				6.2727
Health Club	0.310502 / 0.190307				2.1917
Parking Lot	0 / 0				0.0000
Strip Mall	0.685171 / 0.419943				4.8363
Total					13.3007

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				22.2735

Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

Unmitigated			22.2735
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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0				0.0000
General Office Building	4.65				2.3385
Health Club	29.93				15.0518
Parking Lot	0				0.0000
Strip Mall	9.71				4.8832
Total					22.2735

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0				0.0000

Arts Club
CalEEMod Output - Existing Baseline Operations (Buildout Year)

General Office Building	4.65		2.3385
Health Club	29.93		15.0518
Parking Lot	0		0.0000
Strip Mall	9.71		4.8832
Total			22.2735

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

Arts Club - Buildout with Project Design Features - Los Angeles-South Coast County, Annual

Arts Club - Buildout with Project Design Features
Los Angeles-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	46.01	1000sqft	0.00	46,010.00	0
Enclosed Parking with Elevator	97.50	1000sqft	2.24	97,500.00	0
Health Club	74.06	1000sqft	0.46	74,060.00	0
Strip Mall	11.93	1000sqft	0.00	11,930.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	630.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS Standards

Land Use - Site specific.

Construction Phase - Project specific

Off-road Equipment - Demo

Off-road Equipment - Arch Coating

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Trips and VMT - Site specific.

Demolition -

Grading -

Vehicle Trips - Based on traffic study

Energy Use - 2016 Title 24

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - none

Stationary Sources - Emergency Generators and Fire Pumps - diesel generator

Stationary Sources - Emergency Generators and Fire Pumps EF - Consistency with SCAQMD BACT Requirements

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	10.00	131.00
tblConstructionPhase	NumDays	220.00	500.00
tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	NumDays	6.00	65.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	3.00	110.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	7/31/2019	8/31/2020
tblConstructionPhase	PhaseEndDate	11/30/2018	7/31/2020
tblConstructionPhase	PhaseEndDate	2/15/2017	1/15/2018

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

tblConstructionPhase	PhaseEndDate	8/31/2017	3/31/2018
tblConstructionPhase	PhaseEndDate	7/2/2019	8/31/2020
tblConstructionPhase	PhaseEndDate	7/4/2017	8/31/2018
tblConstructionPhase	PhaseStartDate	7/3/2019	3/1/2020
tblConstructionPhase	PhaseStartDate	9/1/2017	9/1/2018
tblConstructionPhase	PhaseStartDate	1/1/2017	12/1/2017
tblConstructionPhase	PhaseStartDate	7/5/2017	1/16/2018
tblConstructionPhase	PhaseStartDate	12/1/2018	8/1/2020
tblConstructionPhase	PhaseStartDate	2/16/2017	4/1/2018
tblEnergyUse	LightingElect	2.63	2.33
tblEnergyUse	T24E	3.92	0.42
tblEnergyUse	T24E	4.82	4.58
tblEnergyUse	T24E	2.36	2.24
tblEnergyUse	T24E	4.20	3.99
tblGrading	MaterialExported	0.00	48,000.00
tblLandUse	LotAcreage	1.06	0.00
tblLandUse	LotAcreage	1.70	0.46
tblLandUse	LotAcreage	0.27	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Pumps

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	630.89
tblProjectCharacteristics	OperationalYear	2018	2020
tblStationaryGeneratorsPumpsEF	NOX_EF	2.85	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.02
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	3.1000e-004
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	670.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

tblTripsAndVMT	HaulingTripNumber	256.00	825.00
tblTripsAndVMT	HaulingTripNumber	6,000.00	3,429.00
tblTripsAndVMT	VendorTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	38.00	25.00
tblTripsAndVMT	WorkerTripNumber	10.00	42.00
tblTripsAndVMT	WorkerTripNumber	13.00	50.00
tblTripsAndVMT	WorkerTripNumber	15.00	100.00
tblTripsAndVMT	WorkerTripNumber	91.00	100.00
tblTripsAndVMT	WorkerTripNumber	10.00	50.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	ST_TR	2.46	2.02
tblVehicleTrips	ST_TR	20.87	15.73
tblVehicleTrips	ST_TR	42.04	17.81
tblVehicleTrips	SU_TR	1.05	0.83
tblVehicleTrips	SU_TR	26.73	20.15
tblVehicleTrips	SU_TR	20.43	8.65
tblVehicleTrips	WD_TR	11.03	9.37
tblVehicleTrips	WD_TR	32.93	24.82
tblVehicleTrips	WD_TR	44.32	18.77

2.0 Emissions Summary

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
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Arts Club
CalEEMod Output - Project Operations (Buildout Year)

Category	tons/yr										MT/yr					
Area																6.0800e-003
Energy																639.2357
Mobile																2,318.4724
Stationary																3.0723
Waste																240.1154
Water																94.8766
Total																3,295.7785

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area																	6.0800e-003
Energy																	555.4989
Mobile																	2,318.4724
Stationary																	3.0723
Waste																	240.1154
Water																	75.9013
Total																	3,193.0664

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

	ROG	NOx	CO	SO2	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	3.12

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
Category	tons/yr										MT/yr					
Mitigated																2,318.4724
Unmitigated																2,318.4724

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	431.11	92.94	38.19	1,052,358	1,052,358
Health Club	1,838.17	1,164.96	1492.31	3,620,059	3,620,059
Strip Mall	223.93	212.47	103.19	390,113	390,113
Total	2,493.21	1,470.38	1,633.69	5,062,530	5,062,530

4.3 Trip Type Information

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Enclosed Parking with Elevator	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Health Club	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Strip Mall	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

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
	tons/yr										MT/yr					
Electricity Mitigated																468.4284

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

Electricity Unmitigated																		540.1473
NaturalGas Mitigated																		87.0705
NaturalGas Unmitigated																		99.0885

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas s 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						
Enclosed Parking with Elevator	0																	0.0000
General Office Building	481265																	25.8347
Health Club	1.34493e+ 006																	72.1971
Strip Mall	19684.5																	1.0567
Total																		99.0885

Mitigated

	NaturalGas s 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						
Enclosed Parking with Elevator	0																	0.0000
General Office Building	411766																	22.1040

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

Health Club	1.19263e+006																				64.0212
Strip Mall	17608.7																				0.9453
Total																					87.0705

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	286650				82.3565
General Office Building	601811				172.9043
Health Club	828731				238.1001
Strip Mall	162845				46.7863
Total					540.1473

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	223714				64.2745

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

General Office Building	525572				151.0005
Health Club	744599				213.9284
Strip Mall	136527				39.2251
Total					468.4284

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated																6.0800e-003
Unmitigated																6.0800e-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					

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

Architectural Coating																	0.0000
Consumer Products																	0.0000
Landscaping																	6.0800e-003
Total																	6.0800e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating																	0.0000
Consumer Products																	0.0000
Landscaping																	6.0800e-003
Total																	6.0800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
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Arts Club
CalEEMod Output - Project Operations (Buildout Year)

Category	MT/yr			
Mitigated				75.9013
Unmitigated				94.8766

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0				0.0000
General Office Building	8.17753 / 5.01203				57.7216
Health Club	4.38014 / 2.6846				30.9175
Strip Mall	0.883685 / 0.541613				6.2375
Total					94.8766

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

Enclosed Parking with Elevator	0 / 0			0.0000
General Office Building	6.54202 / 4.00963			46.1772
Health Club	3.50411 / 2.14768			24.7340
Strip Mall	0.706948 / 0.433291			4.9900
Total				75.9013

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				240.1154
Unmitigated				240.1154

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

Arts Club
CalEEMod Output - Project Operations (Buildout Year)

Land Use	tons	MT/yr		
Enclosed Parking with Elevator	0			0.0000
General Office Building	42.79			21.5192
Health Club	422.14			212.2949
Strip Mall	12.53			6.3014
Total				240.1154

Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0				0.0000
General Office Building	42.79				21.5192
Health Club	422.14				212.2949
Strip Mall	12.53				6.3014
Total					240.1154

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
Emergency Generator	1	0.5	12	670	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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	
Equipment Type	tons/yr										MT/yr						
Emergency Generator - Diesel (600 - 750 HP)																	3.0723
Total																	3.0723

11.0 Vegetation