

APPENDIX B
CALEEMOD EMISSIONS SUMMARY

18375 Euclid Street Digital Billboard Project - Orange County, Annual

18375 Euclid Street Digital Billboard Project
Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	0.37	User Defined Unit	0.37	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
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

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Project Characteristics -

Land Use - Based on Google Earth Pro, the area around the existing billboard is approximately 1,600 sf or 0.37 acres.

Construction Phase - The analysis conservatively assumes the existing support structure would be demolished and a new pole would be constructed in its place. However, the existing pole structure is proposed to remain in place. Due to the limited construction activities, the construction period is conservatively estimated to last a total of 15 days.

Off-road Equipment - Based on CalEEMod examples from similar billboard projects.

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Grading - The area that may require grading would be limited to the immediate vicinity of the pole structure and would be a fraction of an acre.

Demolition -

Trips and VMT - Conservatively assuming 10 construction workers would be onsite at all times. Vender trips are included for materials delivery and hauling trips are included for disposal of demolition and excavation debris.

Vehicle Trips - 3 visits or 6 total trips per year for maintenance of the billboard

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	10/6/2020	5/12/2020
tblConstructionPhase	PhaseEndDate	5/14/2020	5/2/2020
tblConstructionPhase	PhaseEndDate	5/19/2020	5/8/2020
tblConstructionPhase	PhaseEndDate	10/13/2020	5/18/2020
tblConstructionPhase	PhaseStartDate	5/20/2020	5/9/2020
tblConstructionPhase	PhaseStartDate	5/16/2020	5/3/2020

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tblConstructionPhase	PhaseStartDate	10/7/2020	5/13/2020
tblGrading	AcresOfGrading	2.50	0.00
tblGrading	MaterialExported	0.00	1,700.00
tblLandUse	LandUseSquareFeet	0.00	1,000.00
tblLandUse	LotAcreage	0.00	0.37
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	PhaseName		Securing the Digital Display in Place
tblOffRoadEquipment	PhaseName		Securing the Digital Display in Place
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	20.00
tblVehicleTrips	ST_TR	0.00	0.02

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0110	0.1107	0.0776	1.7000e-004	2.3900e-003	4.9800e-003	7.3700e-003	5.7000e-004	4.6400e-003	5.2100e-003	0.0000	15.1679	15.1679	3.8900e-003	0.0000	15.2650
Maximum	0.0110	0.1107	0.0776	1.7000e-004	2.3900e-003	4.9800e-003	7.3700e-003	5.7000e-004	4.6400e-003	5.2100e-003	0.0000	15.1679	15.1679	3.8900e-003	0.0000	15.2650

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					
2020	0.0110	0.1107	0.0776	1.7000e-004	2.3900e-003	4.9800e-003	7.3700e-003	5.7000e-004	4.6400e-003	5.2100e-003	0.0000	15.1679	15.1679	3.8900e-003	0.0000	15.2650
Maximum	0.0110	0.1107	0.0776	1.7000e-004	2.3900e-003	4.9800e-003	7.3700e-003	5.7000e-004	4.6400e-003	5.2100e-003	0.0000	15.1679	15.1679	3.8900e-003	0.0000	15.2650

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

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2020	7-31-2020	0.1235	0.1235
		Highest	0.1235	0.1235

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	4.0800e-003	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.0800e-003	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Billboard and Support Structure Removal	Demolition	5/1/2020	5/2/2020	6	2	
2	Installation of New Pole Structure	Grading	5/3/2020	5/8/2020	6	5	
3	Trenching for Electricity Lines	Trenching	5/9/2020	5/12/2020	6	3	
4	Securing the Digital Display in Place	Building Construction	5/13/2020	5/18/2020	6	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Securing the Digital Display in Place	Cranes	1	8.00	231	0.29
Billboard and Support Structure Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Trenching for Electricity Lines	Graders	1	8.00	187	0.41
Securing the Digital Display in Place	Aerial Lifts	1	8.00	63	0.31
Securing the Digital Display in Place	Welders	1	8.00	46	0.45
Securing the Digital Display in Place	Forklifts	1	8.00	89	0.20
Billboard and Support Structure Removal	Rubber Tired Dozers	1	8.00	247	0.40
Trenching for Electricity Lines	Trenchers	1	8.00	78	0.50
Billboard and Support Structure Removal	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Installation of New Pole Structure	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Securing the Digital Display in Place	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Billboard and Support Structure Removal	Cranes	1	8.00	231	0.29
Installation of New Pole Structure	Excavators	1	8.00	158	0.38
Installation of New Pole Structure	Graders	1	8.00	187	0.41
Installation of New Pole Structure	Aerial Lifts	1	8.00	63	0.31
Installation of New Pole Structure	Bore/Drill Rigs	1	8.00	221	0.50
Trenching for Electricity Lines	Cement and Mortar Mixers	1	8.00	9	0.56
Trenching for Electricity Lines	Concrete/Industrial Saws	1	8.00	81	0.73

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Billboard and Support Structure Removal	4	20.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Installation of New Pole Structure	5	20.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching for Electricity Lines	4	20.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Securing the Digital Display in Place	5	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Billboard and Support Structure Removal - 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					
Fugitive Dust					4.9000e-004	0.0000	4.9000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1600e-003	0.0221	0.0122	2.0000e-005		1.1100e-003	1.1100e-003		1.0300e-003	1.0300e-003	0.0000	2.0647	2.0647	5.3000e-004	0.0000	2.0779
Total	2.1600e-003	0.0221	0.0122	2.0000e-005	4.9000e-004	1.1100e-003	1.6000e-003	7.0000e-005	1.0300e-003	1.1000e-003	0.0000	2.0647	2.0647	5.3000e-004	0.0000	2.0779

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3.2 Billboard and Support Structure Removal - 2020

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	2.0000e-005	8.5000e-004	2.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2307	0.2307	2.0000e-005	0.0000	0.2313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	6.2000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1900	0.1900	0.0000	0.0000	0.1901
Total	1.0000e-004	9.0000e-004	8.3000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.4207	0.4207	2.0000e-005	0.0000	0.4214

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					4.9000e-004	0.0000	4.9000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1600e-003	0.0221	0.0122	2.0000e-005		1.1100e-003	1.1100e-003		1.0300e-003	1.0300e-003	0.0000	2.0647	2.0647	5.3000e-004	0.0000	2.0779
Total	2.1600e-003	0.0221	0.0122	2.0000e-005	4.9000e-004	1.1100e-003	1.6000e-003	7.0000e-005	1.0300e-003	1.1000e-003	0.0000	2.0647	2.0647	5.3000e-004	0.0000	2.0779

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3.2 Billboard and Support Structure Removal - 2020

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	2.0000e-005	8.5000e-004	2.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2307	0.2307	2.0000e-005	0.0000	0.2313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	6.2000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1900	0.1900	0.0000	0.0000	0.1901
Total	1.0000e-004	9.0000e-004	8.3000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.4207	0.4207	2.0000e-005	0.0000	0.4214

3.3 Installation of New Pole Structure - 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					
Fugitive Dust					1.0000e-004	0.0000	1.0000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1200e-003	0.0375	0.0264	7.0000e-005		1.4200e-003	1.4200e-003		1.3100e-003	1.3100e-003	0.0000	5.7155	5.7155	1.8500e-003	0.0000	5.7617
Total	3.1200e-003	0.0375	0.0264	7.0000e-005	1.0000e-004	1.4200e-003	1.5200e-003	1.0000e-005	1.3100e-003	1.3200e-003	0.0000	5.7155	5.7155	1.8500e-003	0.0000	5.7617

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3.3 Installation of New Pole Structure - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.7000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0609	0.0609	1.0000e-005	0.0000	0.0610
Worker	1.9000e-004	1.4000e-004	1.5500e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4751	0.4751	1.0000e-005	0.0000	0.4754
Total	2.0000e-004	4.1000e-004	1.6200e-003	1.0000e-005	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.6000e-004	0.0000	0.5359	0.5359	2.0000e-005	0.0000	0.5363

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-004	0.0000	1.0000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1200e-003	0.0375	0.0264	7.0000e-005		1.4200e-003	1.4200e-003		1.3100e-003	1.3100e-003	0.0000	5.7155	5.7155	1.8500e-003	0.0000	5.7617
Total	3.1200e-003	0.0375	0.0264	7.0000e-005	1.0000e-004	1.4200e-003	1.5200e-003	1.0000e-005	1.3100e-003	1.3200e-003	0.0000	5.7155	5.7155	1.8500e-003	0.0000	5.7617

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3.3 Installation of New Pole Structure - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.7000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0609	0.0609	1.0000e-005	0.0000	0.0610
Worker	1.9000e-004	1.4000e-004	1.5500e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4751	0.4751	1.0000e-005	0.0000	0.4754
Total	2.0000e-004	4.1000e-004	1.6200e-003	1.0000e-005	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.6000e-004	0.0000	0.5359	0.5359	2.0000e-005	0.0000	0.5363

3.4 Trenching for Electricity Lines - 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	2.0600e-003	0.0207	0.0127	3.0000e-005		1.0500e-003	1.0500e-003		9.9000e-004	9.9000e-004	0.0000	2.1940	2.1940	4.8000e-004	0.0000	2.2061
Total	2.0600e-003	0.0207	0.0127	3.0000e-005		1.0500e-003	1.0500e-003		9.9000e-004	9.9000e-004	0.0000	2.1940	2.1940	4.8000e-004	0.0000	2.2061

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3.4 Trenching for Electricity Lines - 2020

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	2.0000e-005	8.5000e-004	2.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2307	0.2307	2.0000e-005	0.0000	0.2313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	9.3000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2851	0.2851	1.0000e-005	0.0000	0.2852
Total	1.4000e-004	9.3000e-004	1.1400e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.5157	0.5157	3.0000e-005	0.0000	0.5165

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	2.0600e-003	0.0207	0.0127	3.0000e-005		1.0500e-003	1.0500e-003		9.9000e-004	9.9000e-004	0.0000	2.1940	2.1940	4.8000e-004	0.0000	2.2061
Total	2.0600e-003	0.0207	0.0127	3.0000e-005		1.0500e-003	1.0500e-003		9.9000e-004	9.9000e-004	0.0000	2.1940	2.1940	4.8000e-004	0.0000	2.2061

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3.4 Trenching for Electricity Lines - 2020

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	2.0000e-005	8.5000e-004	2.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2307	0.2307	2.0000e-005	0.0000	0.2313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	9.3000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2851	0.2851	1.0000e-005	0.0000	0.2852
Total	1.4000e-004	9.3000e-004	1.1400e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.5157	0.5157	3.0000e-005	0.0000	0.5165

3.5 Securing the Digital Display in Place - 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	2.9700e-003	0.0275	0.0211	4.0000e-005		1.3800e-003	1.3800e-003		1.2900e-003	1.2900e-003	0.0000	3.1245	3.1245	9.3000e-004	0.0000	3.1477
Total	2.9700e-003	0.0275	0.0211	4.0000e-005		1.3800e-003	1.3800e-003		1.2900e-003	1.2900e-003	0.0000	3.1245	3.1245	9.3000e-004	0.0000	3.1477

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3.5 Securing the Digital Display in Place - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.3000e-004	1.4000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1217	0.1217	1.0000e-005	0.0000	0.1220
Worker	1.9000e-004	1.4000e-004	1.5500e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4751	0.4751	1.0000e-005	0.0000	0.4754
Total	2.1000e-004	6.7000e-004	1.6900e-003	1.0000e-005	5.8000e-004	0.0000	5.8000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5968	0.5968	2.0000e-005	0.0000	0.5973

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	2.9700e-003	0.0275	0.0211	4.0000e-005		1.3800e-003	1.3800e-003		1.2900e-003	1.2900e-003	0.0000	3.1245	3.1245	9.3000e-004	0.0000	3.1477
Total	2.9700e-003	0.0275	0.0211	4.0000e-005		1.3800e-003	1.3800e-003		1.2900e-003	1.2900e-003	0.0000	3.1245	3.1245	9.3000e-004	0.0000	3.1477

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3.5 Securing the Digital Display in Place - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.3000e-004	1.4000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1217	0.1217	1.0000e-005	0.0000	0.1220
Worker	1.9000e-004	1.4000e-004	1.5500e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4751	0.4751	1.0000e-005	0.0000	0.4754
Total	2.1000e-004	6.7000e-004	1.6900e-003	1.0000e-005	5.8000e-004	0.0000	5.8000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5968	0.5968	2.0000e-005	0.0000	0.5973

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Commercial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Commercial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Commercial	0.555968	0.043848	0.210359	0.116378	0.016765	0.005795	0.025008	0.016160	0.001677	0.001586	0.004867	0.000586	0.001002

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.0800e-003	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	4.0800e-003	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	4.0700e-003	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	4.0700e-003	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

7.0 Water Detail

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7.1 Mitigation Measures Water

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

18375 Euclid Street Digital Billboard Project - Orange County, Summer

18375 Euclid Street Digital Billboard Project
Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	0.37	User Defined Unit	0.37	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
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

18375 Euclid Street Digital Billboard Project - Orange County, Summer

Project Characteristics -

Land Use - Based on Google Earth Pro, the area around the existing billboard is approximately 1,600 sf or 0.37 acres.

Construction Phase - The analysis conservatively assumes the existing support structure would be demolished and a new pole would be constructed in its place. However, the existing pole structure is proposed to remain in place. Due to the limited construction activities, the construction period is conservatively estimated to last a total of 15 days.

Off-road Equipment - Based on CalEEMod examples from similar billboard projects.

Off-road Equipment - Based on CalEEMod examples from similar billboard projects.

Off-road Equipment - Based on CalEEMod examples from similar billboard projects.

Off-road Equipment - Based on CalEEMod examples from similar billboard projects.

Grading - The area that may require grading would be limited to the immediate vicinity of the pole structure and would be a fraction of an acre.

Demolition -

Trips and VMT - Conservatively assuming 10 construction workers would be onsite at all times. Vender trips are included for materials delivery and hauling trips are included for disposal of demolition and excavation debris.

Vehicle Trips - 3 visits or 6 total trips per year for maintenance of the billboard

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	10/6/2020	5/12/2020
tblConstructionPhase	PhaseEndDate	5/14/2020	5/2/2020
tblConstructionPhase	PhaseEndDate	5/19/2020	5/8/2020
tblConstructionPhase	PhaseEndDate	10/13/2020	5/18/2020
tblConstructionPhase	PhaseStartDate	5/20/2020	5/9/2020
tblConstructionPhase	PhaseStartDate	5/16/2020	5/3/2020

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tblConstructionPhase	PhaseStartDate	10/7/2020	5/13/2020
tblGrading	AcresOfGrading	2.50	0.00
tblGrading	MaterialExported	0.00	1,700.00
tblLandUse	LandUseSquareFeet	0.00	1,000.00
tblLandUse	LotAcreage	0.00	0.37
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	PhaseName		Securing the Digital Display in Place
tblOffRoadEquipment	PhaseName		Securing the Digital Display in Place
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	20.00
tblVehicleTrips	ST_TR	0.00	0.02

2.0 Emissions Summary

18375 Euclid Street Digital Billboard Project - Orange County, Summer

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
Year	lb/day										lb/day					
2020	2.2571	22.9655	13.0625	0.0285	0.7680	1.1112	1.8792	0.1481	1.0383	1.1864	0.0000	2,765.2214	2,765.2214	0.8222	0.0000	2,785.7768
Maximum	2.2571	22.9655	13.0625	0.0285	0.7680	1.1112	1.8792	0.1481	1.0383	1.1864	0.0000	2,765.2214	2,765.2214	0.8222	0.0000	2,785.7768

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					
2020	2.2571	22.9655	13.0625	0.0285	0.7680	1.1112	1.8792	0.1481	1.0383	1.1864	0.0000	2,765.2214	2,765.2214	0.8222	0.0000	2,785.7768
Maximum	2.2571	22.9655	13.0625	0.0285	0.7680	1.1112	1.8792	0.1481	1.0383	1.1864	0.0000	2,765.2214	2,765.2214	0.8222	0.0000	2,785.7768

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

18375 Euclid Street Digital Billboard Project - Orange County, Summer

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	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0223	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005

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	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0223	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005

18375 Euclid Street Digital Billboard Project - Orange County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Billboard and Support Structure Removal	Demolition	5/1/2020	5/2/2020	6	2	
2	Installation of New Pole Structure	Grading	5/3/2020	5/8/2020	6	5	
3	Trenching for Electricity Lines	Trenching	5/9/2020	5/12/2020	6	3	
4	Securing the Digital Display in Place	Building Construction	5/13/2020	5/18/2020	6	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

18375 Euclid Street Digital Billboard Project - Orange County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Securing the Digital Display in Place	Cranes	1	8.00	231	0.29
Billboard and Support Structure Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Trenching for Electricity Lines	Graders	1	8.00	187	0.41
Securing the Digital Display in Place	Aerial Lifts	1	8.00	63	0.31
Securing the Digital Display in Place	Welders	1	8.00	46	0.45
Securing the Digital Display in Place	Forklifts	1	8.00	89	0.20
Billboard and Support Structure Removal	Rubber Tired Dozers	1	8.00	247	0.40
Trenching for Electricity Lines	Trenchers	1	8.00	78	0.50
Billboard and Support Structure Removal	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Installation of New Pole Structure	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Securing the Digital Display in Place	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Billboard and Support Structure Removal	Cranes	1	8.00	231	0.29
Installation of New Pole Structure	Excavators	1	8.00	158	0.38
Installation of New Pole Structure	Graders	1	8.00	187	0.41
Installation of New Pole Structure	Aerial Lifts	1	8.00	63	0.31
Installation of New Pole Structure	Bore/Drill Rigs	1	8.00	221	0.50
Trenching for Electricity Lines	Cement and Mortar Mixers	1	8.00	9	0.56
Trenching for Electricity Lines	Concrete/Industrial Saws	1	8.00	81	0.73

Trips and VMT

18375 Euclid Street Digital Billboard Project - Orange County, Summer

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
Billboard and Support Structure Removal	4	20.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Installation of New Pole Structure	5	20.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching for Electricity Lines	4	20.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Securing the Digital Display in Place	5	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Billboard and Support Structure Removal - 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					
Fugitive Dust					0.4922	0.0000	0.4922	0.0745	0.0000	0.0745			0.0000			0.0000
Off-Road	2.1576	22.0922	12.1994	0.0236		1.1071	1.1071		1.0343	1.0343		2,275.9043	2,275.9043	0.5819		2,290.4527
Total	2.1576	22.0922	12.1994	0.0236	0.4922	1.1071	1.5992	0.0745	1.0343	1.1089		2,275.9043	2,275.9043	0.5819		2,290.4527

18375 Euclid Street Digital Billboard Project - Orange County, Summer

3.2 Billboard and Support Structure Removal - 2020

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	0.0227	0.8249	0.2084	2.3000e-003	0.0522	2.6700e-003	0.0549	0.0143	2.5600e-003	0.0169		255.9174	255.9174	0.0265		256.5806
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
Total	0.0995	0.8733	0.8631	4.4900e-003	0.2758	4.1500e-003	0.2799	0.0736	3.9200e-003	0.0775		473.9261	473.9261	0.0315		474.7135

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					0.4922	0.0000	0.4922	0.0745	0.0000	0.0745			0.0000			0.0000
Off-Road	2.1576	22.0922	12.1994	0.0236		1.1071	1.1071		1.0343	1.0343	0.0000	2,275.9043	2,275.9043	0.5819		2,290.4527
Total	2.1576	22.0922	12.1994	0.0236	0.4922	1.1071	1.5992	0.0745	1.0343	1.1089	0.0000	2,275.9043	2,275.9043	0.5819		2,290.4527

18375 Euclid Street Digital Billboard Project - Orange County, Summer

3.2 Billboard and Support Structure Removal - 2020

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	0.0227	0.8249	0.2084	2.3000e-003	0.0522	2.6700e-003	0.0549	0.0143	2.5600e-003	0.0169		255.9174	255.9174	0.0265		256.5806
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
Total	0.0995	0.8733	0.8631	4.4900e-003	0.2758	4.1500e-003	0.2799	0.0736	3.9200e-003	0.0775		473.9261	473.9261	0.0315		474.7135

3.3 Installation of New Pole Structure - 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					
Fugitive Dust					0.0385	0.0000	0.0385	5.8200e-003	0.0000	5.8200e-003			0.0000			0.0000
Off-Road	1.2483	15.0151	10.5516	0.0260		0.5684	0.5684		0.5229	0.5229		2,520.0998	2,520.0998	0.8151		2,540.4761
Total	1.2483	15.0151	10.5516	0.0260	0.0385	0.5684	0.6068	5.8200e-003	0.5229	0.5287		2,520.0998	2,520.0998	0.8151		2,540.4761

18375 Euclid Street Digital Billboard Project - Orange County, Summer

3.3 Installation of New Pole Structure - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.1900e-003	0.1042	0.0275	2.5000e-004	6.3900e-003	5.4000e-004	6.9300e-003	1.8400e-003	5.2000e-004	2.3600e-003		27.1129	27.1129	2.1900e-003		27.1677
Worker	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
Total	0.0801	0.1526	0.6822	2.4400e-003	0.2299	2.0200e-003	0.2320	0.0611	1.8800e-003	0.0630		245.1216	245.1216	7.1600e-003		245.3007

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					0.0385	0.0000	0.0385	5.8200e-003	0.0000	5.8200e-003			0.0000			0.0000
Off-Road	1.2483	15.0151	10.5516	0.0260		0.5684	0.5684		0.5229	0.5229	0.0000	2,520.0998	2,520.0998	0.8151		2,540.4761
Total	1.2483	15.0151	10.5516	0.0260	0.0385	0.5684	0.6068	5.8200e-003	0.5229	0.5287	0.0000	2,520.0998	2,520.0998	0.8151		2,540.4761

18375 Euclid Street Digital Billboard Project - Orange County, Summer

3.3 Installation of New Pole Structure - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.1900e-003	0.1042	0.0275	2.5000e-004	6.3900e-003	5.4000e-004	6.9300e-003	1.8400e-003	5.2000e-004	2.3600e-003		27.1129	27.1129	2.1900e-003		27.1677
Worker	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
Total	0.0801	0.1526	0.6822	2.4400e-003	0.2299	2.0200e-003	0.2320	0.0611	1.8800e-003	0.0630		245.1216	245.1216	7.1600e-003		245.3007

3.4 Trenching for Electricity Lines - 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	1.3731	13.7878	8.4532	0.0170		0.6997	0.6997		0.6607	0.6607		1,612.3079	1,612.3079	0.3562		1,621.2135
Total	1.3731	13.7878	8.4532	0.0170		0.6997	0.6997		0.6607	0.6607		1,612.3079	1,612.3079	0.3562		1,621.2135

18375 Euclid Street Digital Billboard Project - Orange County, Summer

3.4 Trenching for Electricity Lines - 2020

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	0.0151	0.5499	0.1390	1.5300e-003	0.0348	1.7800e-003	0.0366	9.5300e-003	1.7000e-003	0.0112		170.6116	170.6116	0.0177		171.0537
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
Total	0.0920	0.5984	0.7936	3.7200e-003	0.2584	3.2600e-003	0.2616	0.0688	3.0600e-003	0.0719		388.6203	388.6203	0.0227		389.1867

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3731	13.7878	8.4532	0.0170		0.6997	0.6997		0.6607	0.6607	0.0000	1,612.3079	1,612.3079	0.3562		1,621.2135
Total	1.3731	13.7878	8.4532	0.0170		0.6997	0.6997		0.6607	0.6607	0.0000	1,612.3079	1,612.3079	0.3562		1,621.2135

18375 Euclid Street Digital Billboard Project - Orange County, Summer

3.4 Trenching for Electricity Lines - 2020

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	0.0151	0.5499	0.1390	1.5300e-003	0.0348	1.7800e-003	0.0366	9.5300e-003	1.7000e-003	0.0112		170.6116	170.6116	0.0177		171.0537
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
Total	0.0920	0.5984	0.7936	3.7200e-003	0.2584	3.2600e-003	0.2616	0.0688	3.0600e-003	0.0719		388.6203	388.6203	0.0227		389.1867

3.5 Securing the Digital Display in Place - 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	1.1886	11.0091	8.4366	0.0146		0.5533	0.5533		0.5160	0.5160		1,377.6866	1,377.6866	0.4091		1,387.9150
Total	1.1886	11.0091	8.4366	0.0146		0.5533	0.5533		0.5160	0.5160		1,377.6866	1,377.6866	0.4091		1,387.9150

18375 Euclid Street Digital Billboard Project - Orange County, Summer

3.5 Securing the Digital Display in Place - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3900e-003	0.2084	0.0550	5.0000e-004	0.0128	1.0900e-003	0.0139	3.6800e-003	1.0400e-003	4.7200e-003		54.2258	54.2258	4.3900e-003		54.3354
Worker	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
Total	0.0833	0.2568	0.7096	2.6900e-003	0.2363	2.5700e-003	0.2389	0.0630	2.4000e-003	0.0654		272.2345	272.2345	9.3600e-003		272.4684

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1886	11.0091	8.4366	0.0146		0.5533	0.5533		0.5160	0.5160	0.0000	1,377.6865	1,377.6865	0.4091		1,387.9150
Total	1.1886	11.0091	8.4366	0.0146		0.5533	0.5533		0.5160	0.5160	0.0000	1,377.6865	1,377.6865	0.4091		1,387.9150

18375 Euclid Street Digital Billboard Project - Orange County, Summer

3.5 Securing the Digital Display in Place - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.3900e-003	0.2084	0.0550	5.0000e-004	0.0128	1.0900e-003	0.0139	3.6800e-003	1.0400e-003	4.7200e-003		54.2258	54.2258	4.3900e-003		54.3354
Worker	0.0769	0.0484	0.6547	2.1900e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		218.0087	218.0087	4.9700e-003		218.1330
Total	0.0833	0.2568	0.7096	2.6900e-003	0.2363	2.5700e-003	0.2389	0.0630	2.4000e-003	0.0654		272.2345	272.2345	9.3600e-003		272.4684

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

18375 Euclid Street Digital Billboard Project - Orange County, Summer

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Commercial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Commercial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Commercial	0.555968	0.043848	0.210359	0.116378	0.016765	0.005795	0.025008	0.016160	0.001677	0.001586	0.004867	0.000586	0.001002

5.0 Energy Detail

Historical Energy Use: N

18375 Euclid Street Digital Billboard Project - Orange County, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

18375 Euclid Street Digital Billboard Project - Orange County, Summer

5.2 Energy by Land Use - Natural Gas

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Unmitigated	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Total	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005

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	2.5400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Total	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005

7.0 Water Detail

18375 Euclid Street Digital Billboard Project - Orange County, Summer

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

18375 Euclid Street Digital Billboard Project - Orange County, Winter

**18375 Euclid Street Digital Billboard Project
Orange County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	0.37	User Defined Unit	0.37	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2020
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

18375 Euclid Street Digital Billboard Project - Orange County, Winter

Project Characteristics -

Land Use - Based on Google Earth Pro, the area around the existing billboard is approximately 1,600 sf or 0.37 acres.

Construction Phase - The analysis conservatively assumes the existing support structure would be demolished and a new pole would be constructed in its place. However, the existing pole structure is proposed to remain in place. Due to the limited construction activities, the construction period is conservatively estimated to last a total of 15 days.

Off-road Equipment - Based on CalEEMod examples from similar billboard projects.

Off-road Equipment - Based on CalEEMod examples from similar billboard projects.

Off-road Equipment - Based on CalEEMod examples from similar billboard projects.

Off-road Equipment - Based on CalEEMod examples from similar billboard projects.

Grading - The area that may require grading would be limited to the immediate vicinity of the pole structure and would be a fraction of an acre.

Demolition -

Trips and VMT - Conservatively assuming 10 construction workers would be onsite at all times. Vender trips are included for materials delivery and hauling trips are included for disposal of demolition and excavation debris.

Vehicle Trips - 3 visits or 6 total trips per year for maintenance of the billboard

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	2.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	100.00	5.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	10/6/2020	5/12/2020
tblConstructionPhase	PhaseEndDate	5/14/2020	5/2/2020
tblConstructionPhase	PhaseEndDate	5/19/2020	5/8/2020
tblConstructionPhase	PhaseEndDate	10/13/2020	5/18/2020
tblConstructionPhase	PhaseStartDate	5/20/2020	5/9/2020
tblConstructionPhase	PhaseStartDate	5/16/2020	5/3/2020

18375 Euclid Street Digital Billboard Project - Orange County, Winter

tblConstructionPhase	PhaseStartDate	10/7/2020	5/13/2020
tblGrading	AcresOfGrading	2.50	0.00
tblGrading	MaterialExported	0.00	1,700.00
tblLandUse	LandUseSquareFeet	0.00	1,000.00
tblLandUse	LotAcreage	0.00	0.37
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

18375 Euclid Street Digital Billboard Project - Orange County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	PhaseName		Securing the Digital Display in Place
tblOffRoadEquipment	PhaseName		Securing the Digital Display in Place
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	20.00
tblVehicleTrips	ST_TR	0.00	0.02

2.0 Emissions Summary

18375 Euclid Street Digital Billboard Project - Orange County, Winter

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
Year	lb/day										lb/day					
2020	2.2677	22.9807	13.0239	0.0283	0.7680	1.1113	1.8792	0.1481	1.0383	1.1864	0.0000	2,752.8707	2,752.8707	0.8221	0.0000	2,773.4222
Maximum	2.2677	22.9807	13.0239	0.0283	0.7680	1.1113	1.8792	0.1481	1.0383	1.1864	0.0000	2,752.8707	2,752.8707	0.8221	0.0000	2,773.4222

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					
2020	2.2677	22.9807	13.0239	0.0283	0.7680	1.1113	1.8792	0.1481	1.0383	1.1864	0.0000	2,752.8707	2,752.8707	0.8221	0.0000	2,773.4222
Maximum	2.2677	22.9807	13.0239	0.0283	0.7680	1.1113	1.8792	0.1481	1.0383	1.1864	0.0000	2,752.8707	2,752.8707	0.8221	0.0000	2,773.4222

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

18375 Euclid Street Digital Billboard Project - Orange County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0223	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005

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	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0223	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005

18375 Euclid Street Digital Billboard Project - Orange County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Billboard and Support Structure Removal	Demolition	5/1/2020	5/2/2020	6	2	
2	Installation of New Pole Structure	Grading	5/3/2020	5/8/2020	6	5	
3	Trenching for Electricity Lines	Trenching	5/9/2020	5/12/2020	6	3	
4	Securing the Digital Display in Place	Building Construction	5/13/2020	5/18/2020	6	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

18375 Euclid Street Digital Billboard Project - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Securing the Digital Display in Place	Cranes	1	8.00	231	0.29
Billboard and Support Structure Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Trenching for Electricity Lines	Graders	1	8.00	187	0.41
Securing the Digital Display in Place	Aerial Lifts	1	8.00	63	0.31
Securing the Digital Display in Place	Welders	1	8.00	46	0.45
Securing the Digital Display in Place	Forklifts	1	8.00	89	0.20
Billboard and Support Structure Removal	Rubber Tired Dozers	1	8.00	247	0.40
Trenching for Electricity Lines	Trenchers	1	8.00	78	0.50
Billboard and Support Structure Removal	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Installation of New Pole Structure	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Securing the Digital Display in Place	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Billboard and Support Structure Removal	Cranes	1	8.00	231	0.29
Installation of New Pole Structure	Excavators	1	8.00	158	0.38
Installation of New Pole Structure	Graders	1	8.00	187	0.41
Installation of New Pole Structure	Aerial Lifts	1	8.00	63	0.31
Installation of New Pole Structure	Bore/Drill Rigs	1	8.00	221	0.50
Trenching for Electricity Lines	Cement and Mortar Mixers	1	8.00	9	0.56
Trenching for Electricity Lines	Concrete/Industrial Saws	1	8.00	81	0.73

Trips and VMT

18375 Euclid Street Digital Billboard Project - Orange County, Winter

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
Billboard and Support Structure Removal	4	20.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Installation of New Pole Structure	5	20.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching for Electricity Lines	4	20.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Securing the Digital Display in Place	5	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Billboard and Support Structure Removal - 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					
Fugitive Dust					0.4922	0.0000	0.4922	0.0745	0.0000	0.0745			0.0000			0.0000
Off-Road	2.1576	22.0922	12.1994	0.0236		1.1071	1.1071		1.0343	1.0343		2,275.9043	2,275.9043	0.5819		2,290.4527
Total	2.1576	22.0922	12.1994	0.0236	0.4922	1.1071	1.5992	0.0745	1.0343	1.1089		2,275.9043	2,275.9043	0.5819		2,290.4527

18375 Euclid Street Digital Billboard Project - Orange County, Winter

3.2 Billboard and Support Structure Removal - 2020

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	0.0232	0.8353	0.2195	2.2600e-003	0.0522	2.7200e-003	0.0550	0.0143	2.6000e-003	0.0169		252.0540	252.0540	0.0272		252.7329
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
Total	0.1101	0.8885	0.8245	4.3300e-003	0.2758	4.2000e-003	0.2800	0.0736	3.9600e-003	0.0776		458.3782	458.3782	0.0319		459.1749

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					0.4922	0.0000	0.4922	0.0745	0.0000	0.0745			0.0000			0.0000
Off-Road	2.1576	22.0922	12.1994	0.0236		1.1071	1.1071		1.0343	1.0343	0.0000	2,275.9043	2,275.9043	0.5819		2,290.4527
Total	2.1576	22.0922	12.1994	0.0236	0.4922	1.1071	1.5992	0.0745	1.0343	1.1089	0.0000	2,275.9043	2,275.9043	0.5819		2,290.4527

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3.2 Billboard and Support Structure Removal - 2020

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	0.0232	0.8353	0.2195	2.2600e-003	0.0522	2.7200e-003	0.0550	0.0143	2.6000e-003	0.0169		252.0540	252.0540	0.0272		252.7329
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
Total	0.1101	0.8885	0.8245	4.3300e-003	0.2758	4.2000e-003	0.2800	0.0736	3.9600e-003	0.0776		458.3782	458.3782	0.0319		459.1749

3.3 Installation of New Pole Structure - 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					
Fugitive Dust					0.0385	0.0000	0.0385	5.8200e-003	0.0000	5.8200e-003			0.0000			0.0000
Off-Road	1.2483	15.0151	10.5516	0.0260		0.5684	0.5684		0.5229	0.5229		2,520.0998	2,520.0998	0.8151		2,540.4761
Total	1.2483	15.0151	10.5516	0.0260	0.0385	0.5684	0.6068	5.8200e-003	0.5229	0.5287		2,520.0998	2,520.0998	0.8151		2,540.4761

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3.3 Installation of New Pole Structure - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.3400e-003	0.1041	0.0301	2.4000e-004	6.3900e-003	5.5000e-004	6.9400e-003	1.8400e-003	5.3000e-004	2.3700e-003		26.4466	26.4466	2.3000e-003		26.5042
Worker	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
Total	0.0902	0.1574	0.6352	2.3100e-003	0.2299	2.0300e-003	0.2320	0.0611	1.8900e-003	0.0630		232.7708	232.7708	7.0100e-003		232.9461

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					0.0385	0.0000	0.0385	5.8200e-003	0.0000	5.8200e-003			0.0000			0.0000
Off-Road	1.2483	15.0151	10.5516	0.0260		0.5684	0.5684		0.5229	0.5229	0.0000	2,520.0998	2,520.0998	0.8151		2,540.4761
Total	1.2483	15.0151	10.5516	0.0260	0.0385	0.5684	0.6068	5.8200e-003	0.5229	0.5287	0.0000	2,520.0998	2,520.0998	0.8151		2,540.4761

18375 Euclid Street Digital Billboard Project - Orange County, Winter

3.3 Installation of New Pole Structure - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.3400e-003	0.1041	0.0301	2.4000e-004	6.3900e-003	5.5000e-004	6.9400e-003	1.8400e-003	5.3000e-004	2.3700e-003		26.4466	26.4466	2.3000e-003		26.5042
Worker	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
Total	0.0902	0.1574	0.6352	2.3100e-003	0.2299	2.0300e-003	0.2320	0.0611	1.8900e-003	0.0630		232.7708	232.7708	7.0100e-003		232.9461

3.4 Trenching for Electricity Lines - 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	1.3731	13.7878	8.4532	0.0170		0.6997	0.6997		0.6607	0.6607		1,612.3079	1,612.3079	0.3562		1,621.2135
Total	1.3731	13.7878	8.4532	0.0170		0.6997	0.6997		0.6607	0.6607		1,612.3079	1,612.3079	0.3562		1,621.2135

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3.4 Trenching for Electricity Lines - 2020

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	0.0155	0.5569	0.1463	1.5100e-003	0.0348	1.8100e-003	0.0366	9.5300e-003	1.7300e-003	0.0113		168.0360	168.0360	0.0181		168.4886
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
Total	0.1023	0.6101	0.7514	3.5800e-003	0.2584	3.2900e-003	0.2617	0.0688	3.0900e-003	0.0719		374.3602	374.3602	0.0228		374.9305

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3731	13.7878	8.4532	0.0170		0.6997	0.6997		0.6607	0.6607	0.0000	1,612.3079	1,612.3079	0.3562		1,621.2135
Total	1.3731	13.7878	8.4532	0.0170		0.6997	0.6997		0.6607	0.6607	0.0000	1,612.3079	1,612.3079	0.3562		1,621.2135

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3.4 Trenching for Electricity Lines - 2020

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	0.0155	0.5569	0.1463	1.5100e-003	0.0348	1.8100e-003	0.0366	9.5300e-003	1.7300e-003	0.0113		168.0360	168.0360	0.0181		168.4886
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
Total	0.1023	0.6101	0.7514	3.5800e-003	0.2584	3.2900e-003	0.2617	0.0688	3.0900e-003	0.0719		374.3602	374.3602	0.0228		374.9305

3.5 Securing the Digital Display in Place - 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	1.1886	11.0091	8.4366	0.0146		0.5533	0.5533		0.5160	0.5160		1,377.6866	1,377.6866	0.4091		1,387.9150
Total	1.1886	11.0091	8.4366	0.0146		0.5533	0.5533		0.5160	0.5160		1,377.6866	1,377.6866	0.4091		1,387.9150

18375 Euclid Street Digital Billboard Project - Orange County, Winter

3.5 Securing the Digital Display in Place - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.6700e-003	0.2083	0.0603	4.9000e-004	0.0128	1.1100e-003	0.0139	3.6800e-003	1.0600e-003	4.7400e-003		52.8932	52.8932	4.6100e-003		53.0084
Worker	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
Total	0.0935	0.2615	0.6654	2.5600e-003	0.2363	2.5900e-003	0.2389	0.0630	2.4200e-003	0.0654		259.2174	259.2174	9.3200e-003		259.4503

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1886	11.0091	8.4366	0.0146		0.5533	0.5533		0.5160	0.5160	0.0000	1,377.6865	1,377.6865	0.4091		1,387.9150
Total	1.1886	11.0091	8.4366	0.0146		0.5533	0.5533		0.5160	0.5160	0.0000	1,377.6865	1,377.6865	0.4091		1,387.9150

18375 Euclid Street Digital Billboard Project - Orange County, Winter

3.5 Securing the Digital Display in Place - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	6.6700e-003	0.2083	0.0603	4.9000e-004	0.0128	1.1100e-003	0.0139	3.6800e-003	1.0600e-003	4.7400e-003		52.8932	52.8932	4.6100e-003		53.0084
Worker	0.0869	0.0532	0.6051	2.0700e-003	0.2236	1.4800e-003	0.2250	0.0593	1.3600e-003	0.0607		206.3242	206.3242	4.7100e-003		206.4419
Total	0.0935	0.2615	0.6654	2.5600e-003	0.2363	2.5900e-003	0.2389	0.0630	2.4200e-003	0.0654		259.2174	259.2174	9.3200e-003		259.4503

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Commercial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Commercial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Commercial	0.555968	0.043848	0.210359	0.116378	0.016765	0.005795	0.025008	0.016160	0.001677	0.001586	0.004867	0.000586	0.001002

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Commercial	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	
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	

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5.2 Energy by Land Use - Natural Gas

Mitigated

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Unmitigated	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.5400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Total	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005

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	2.5400e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005
Total	0.0223	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		8.0000e-005	8.0000e-005	0.0000		9.0000e-005

7.0 Water Detail

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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