

APPENDIX D – GREENHOUSE GAS EMISSIONS CALEMOD MODEL PRINTOUTS



Otay Lakes Campground Project - San Diego County, Annual

Otay Lakes Campground Project
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	4.52	Acre	4.52	196,891.20	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 2.6 Precipitation Freq (Days) 40
 Climate Zone 13 Operational Year 2020

Utility Company San Diego Gas & Electric

CO2 Intensity (lb/MW/hr) 720.49 CH4 Intensity (lb/MW/hr) 0.029 N2O Intensity (lb/MW/hr) 0.006

1.3 User Entered Comments & Non-Default Data

Otay Lakes Campground Project - San Diego County, Annual

Project Characteristics -

Land Use - 4.52 acres disturbed. Building Area: 300 sq ft Flag Plaza, 1,800 sq ft Restroom, 800 sq ft Storage, 150 sq ft Stage = 3,050 sq ft

Construction Phase - Construction Start 1-31-20 finished 6-30-20

Off-road Equipment - Demolition: 1 Concrete Saw; 1 Tractor/Loader/Backhoe

Off-road Equipment - Site Preparation: 4 Tractor/Loader/Backhoes

Off-road Equipment - Building Construction" 1 Crane, 3 Forklifts, 1 Generator, 3 Tractor/Loader/Backhoe, 1 Welder

Demolition - Existing 450 sq ft Restroom to be demolished

Trips and VMT - 6 vendor truck trips added to Demo and Site Prep to account for water truck emissions

Vehicle Trips - Trip Rates from Traffic Memo of 176 Weekday trips (38.93 trips/acre); 528 Saturday trips (116.8 trips/acre); 198 Sunday trips (43.80 trips/acre)

Construction Off-road Equipment Mitigation - Water Exposed Area 2x per day selected to account for SDAPCD Rules 50 and 55

Otay Lakes Campground Project - San Diego County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	84.00
tblConstructionPhase	NumDays	230.00	84.00
tblConstructionPhase	NumDays	20.00	2.00
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	PhaseEndDate	3/24/2021	6/30/2020
tblConstructionPhase	PhaseEndDate	2/2/2021	6/30/2020
tblConstructionPhase	PhaseEndDate	2/27/2020	2/3/2020
tblConstructionPhase	PhaseEndDate	3/5/2020	3/4/2020
tblConstructionPhase	PhaseStartDate	2/27/2021	3/5/2020
tblConstructionPhase	PhaseStartDate	3/18/2020	3/5/2020
tblConstructionPhase	PhaseStartDate	2/28/2020	2/4/2020
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	18.00	5.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblVehicleTrips	ST_TR	22.75	116.80
tblVehicleTrips	SU_TR	16.74	43.80
tblVehicleTrips	WD_TR	1.89	38.93

2.0 Emissions Summary

Otay Lakes Campground Project - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-31-2020	4-29-2020	0.6866	0.6866
2	4-30-2020	7-30-2020	0.6292	0.6292
		Highest	0.6866	0.6866

2.2 Overall Operational
Unmitigated Operational

Category	tons/yr											MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area	0.0173	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000
Mobile	0.0675	0.2860	0.7343	2.2600e-003	0.1846	2.3000e-003	0.1869	0.0494	2.1600e-003	0.0516	0.0000	208.0345	208.0345	0.0119	0.0000	0.0000	208.3308
Waste						0.0000	0.0000		0.0000	0.0000	0.0792	0.0000	0.0792	4.6800e-003	0.0000	0.0000	0.1961
Water						0.0000	0.0000		0.0000	0.0000	0.0000	19.5539	19.5539	7.9000e-004	1.6000e-004	19.6221	
Total	0.0847	0.2860	0.7344	2.2600e-003	0.1846	2.3000e-003	0.1869	0.0494	2.1600e-003	0.0516	0.0792	227.5885	227.6676	0.0173	1.6000e-004	228.1491	

Otay Lakes Campground Project - San Diego County, Annual

2.2 Overall Operational

Mitigated Operational

Category	tons/yr											MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area	0.0173	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	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	0.0000	0.0000	0.0000
Mobile	0.0675	0.2860	0.7343	2.2600e-003	0.1846	2.3000e-003	0.1869	0.0494	2.1600e-003	0.0516	0.0000	208.0345	208.0345	0.0119	0.0000	0.0000	208.3308
Waste						0.0000	0.0000		0.0000	0.0000	0.0792	0.0000	0.0792	4.6800e-003	0.0000	0.1961	
Water						0.0000	0.0000		0.0000	0.0000	0.0000	19.5539	19.5539	7.9000e-004	1.6000e-004	19.6221	
Total	0.0847	0.2860	0.7344	2.2600e-003	0.1846	2.3000e-003	0.1869	0.0494	2.1600e-003	0.0516	0.0792	227.5885	227.6676	0.0173	1.6000e-004	228.1491	

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/31/2020	2/3/2020	5	2	
2	Site Preparation	Site Preparation	2/4/2020	3/4/2020	5	22	
3	Building Construction	Building Construction	3/5/2020	6/30/2020	5	84	
4	Architectural Coating	Architectural Coating	3/5/2020	6/30/2020	5	84	

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: 4,575; Non-Residential Outdoor: 1,525; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	5.00	6.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	10.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	83.00	32.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
Fugitive Dust					2.2000e-004	0.0000	2.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-004	5.4000e-003	5.9700e-003	1.0000e-005	3.3000e-004	3.3000e-004	3.3000e-004	3.2000e-004	3.2000e-004	3.2000e-004	0.0000	0.8105	0.8105	1.2000e-004	0.0000	0.8136
Total	6.3000e-004	5.4000e-003	5.9700e-003	1.0000e-005	2.2000e-004	3.3000e-004	5.5000e-004	3.2000e-004	3.2000e-004	3.5000e-004	0.0000	0.8105	0.8105	1.2000e-004	0.0000	0.8136
MT/yr																

Otay Lakes Campground Project - San Diego County, Annual

3.2 Demolition - 2020

Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.0000e-005	2.8000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0771	0.0771	1.0000e-005	0.0000	0.0773
Vendor	2.0000e-005	6.8000e-004	1.8000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.1583	0.1583	1.0000e-005	0.0000	0.1586
Worker	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0362	0.0362	0.0000	0.0000	0.0363
Total	5.0000e-005	9.7000e-004	3.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	2.0000e-005	0.0000	3.0000e-005	0.0000	0.2717	0.2717	2.0000e-005	0.0000	0.2722

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					1.0000e-004	0.0000	1.0000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-004	5.4000e-003	5.9700e-003	1.0000e-005	3.3000e-004	3.3000e-004	3.3000e-004	3.2000e-004	3.2000e-004	3.2000e-004	0.0000	0.8105	0.8105	1.2000e-004	0.0000	0.8136
Total	6.3000e-004	5.4000e-003	5.9700e-003	1.0000e-005	1.0000e-004	3.3000e-004	4.3000e-004	2.0000e-005	3.2000e-004	3.4000e-004	0.0000	0.8105	0.8105	1.2000e-004	0.0000	0.8136

Otay Lakes Campground Project - San Diego County, Annual

3.2 Demolition - 2020

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	1.0000e-005	2.8000e-004	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0771	0.0771	1.0000e-005	0.0000	0.0773
Vendor	2.0000e-005	6.8000e-004	1.8000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.1583	0.1583	1.0000e-005	0.0000	0.1586
Worker	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0362	0.0362	0.0000	0.0000	0.0363
Total	5.0000e-005	9.7000e-004	3.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	2.0000e-005	0.0000	3.0000e-005	0.0000	0.2717	0.2717	2.0000e-005	0.0000	0.2722

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.1987	0.0000	0.1987	0.1092	0.0000	0.1092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2200e-003	0.0926	0.1003	1.4000e-004	5.8600e-003	5.8600e-003	5.8600e-003	5.3900e-003	5.3900e-003	5.3900e-003	0.0000	12.0055	12.0055	3.8800e-003	0.0000	12.1026
Total	9.2200e-003	0.0926	0.1003	1.4000e-004	0.1987	5.8600e-003	0.2046	0.1092	5.3900e-003	0.1146	0.0000	12.0055	12.0055	3.8800e-003	0.0000	12.1026

Otay Lakes Campground Project - San Diego County, Annual

3.3 Site Preparation - 2020
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	2.5000e-004	7.5200e-003	2.0000e-003	2.0000e-005	4.4000e-004	4.0000e-005	4.7000e-004	1.3000e-004	4.0000e-005	1.6000e-004	0.0000	1.7415	1.7415	1.3000e-004	0.0000	1.7448
Worker	4.1000e-004	3.0000e-004	2.9400e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7974	0.7974	2.0000e-005	0.0000	0.7980
Total	6.6000e-004	7.8200e-003	4.9400e-003	3.0000e-005	1.3200e-003	5.0000e-005	1.3600e-003	3.6000e-004	5.0000e-005	4.0000e-004	0.0000	2.5389	2.5389	1.5000e-004	0.0000	2.5428

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Fugitive Dust					0.0894	0.0000	0.0894	0.0492	0.0000	0.0492	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2200e-003	0.0926	0.1003	1.4000e-004	5.8600e-003	5.8600e-003	5.8600e-003	5.3900e-003	5.3900e-003	5.3900e-003	0.0000	12.0055	12.0055	3.8800e-003	0.0000	12.1026
Total	9.2200e-003	0.0926	0.1003	1.4000e-004	0.0894	5.8600e-003	0.0953	0.0492	5.3900e-003	0.0546	0.0000	12.0055	12.0055	3.8800e-003	0.0000	12.1026

Otay Lakes Campground Project - San Diego County, Annual

3.3 Site Preparation - 2020
Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	2.5000e-004	7.5200e-003	2.0000e-003	2.0000e-005	4.4000e-004	4.0000e-005	4.7000e-004	1.3000e-004	4.0000e-005	1.6000e-004	0.0000	1.7415	1.7415	1.3000e-004	0.0000	1.7448
Worker	4.1000e-004	3.0000e-004	2.9400e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7974	0.7974	2.0000e-005	0.0000	0.7980
Total	6.6000e-004	7.8200e-003	4.9400e-003	3.0000e-005	1.3200e-003	5.0000e-005	1.3600e-003	3.6000e-004	5.0000e-005	4.0000e-004	0.0000	2.5389	2.5389	1.5000e-004	0.0000	2.5428

3.4 Building Construction - 2020
Unmitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0890	0.8058	0.7076	1.1300e-003		0.0469	0.0469		0.0441	0.0441	0.0000	97.2762	97.2762	0.0237	0.0000	97.8695
Total	0.0890	0.8058	0.7076	1.1300e-003		0.0469	0.0469		0.0441	0.0441	0.0000	97.2762	97.2762	0.0237	0.0000	97.8695

Otay Lakes Campground Project - San Diego County, Annual

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	5.1200e-003	0.1532	0.0407	3.6000e-004	8.9200e-003	7.5000e-004	9.6700e-003	2.5800e-003	7.1000e-004	3.2900e-003	0.0000	35.4630	35.4630	2.7200e-003	0.0000	35.5309
Worker	0.0129	9.5100e-003	0.0933	2.8000e-004	0.0280	2.0000e-004	0.0282	7.4300e-003	1.9000e-004	7.6100e-003	0.0000	25.2692	25.2692	7.6000e-004	0.0000	25.2881
Total	0.0180	0.1627	0.1340	6.4000e-004	0.0369	9.5000e-004	0.0378	0.0100	9.0000e-004	0.0109	0.0000	60.7321	60.7321	3.4800e-003	0.0000	60.8191

Mitigated Construction On-Site

Category	tons/yr											MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.0890	0.8058	0.7076	1.1300e-003		0.0469	0.0469	0.0441	0.0441	0.0441	0.0000	97.2761	97.2761	0.0237	0.0000	97.8694
Total	0.0890	0.8058	0.7076	1.1300e-003		0.0469	0.0469	0.0441	0.0441	0.0441	0.0000	97.2761	97.2761	0.0237	0.0000	97.8694

Otay Lakes Campground Project - San Diego County, Annual

3.4 Building Construction - 2020

Mitigated Construction Off-Site

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
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	0.0000
Vendor	5.1200e-003	0.1532	0.0407	3.6000e-004	8.9200e-003	7.5000e-004	9.6700e-003	2.5800e-003	7.1000e-004	3.2900e-003	0.0000	35.4630	35.4630	2.7200e-003	0.0000	0.0000	35.5309
Worker	0.0129	9.5100e-003	0.0933	2.8000e-004	0.0280	2.0000e-004	0.0282	7.4300e-003	1.9000e-004	7.6100e-003	0.0000	25.2692	25.2692	7.6000e-004	0.0000	0.0000	25.2881
Total	0.0180	0.1627	0.1340	6.4000e-004	0.0369	9.5000e-004	0.0378	0.0100	9.0000e-004	0.0109	0.0000	60.7321	60.7321	3.4800e-003	0.0000	0.0000	60.8191

3.5 Architectural Coating - 2020

Unmitigated Construction On-Site

Category	tons/yr										MT/yr						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Archit. Coating	0.0353					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0707	0.0769	1.2000e-004		4.6600e-003	4.6600e-003		4.6600e-003	4.6600e-003	0.0000	10.7237	10.7237	8.3000e-004	0.0000	0.0000	10.7444
Total	0.0455	0.0707	0.0769	1.2000e-004		4.6600e-003	4.6600e-003		4.6600e-003	4.6600e-003	0.0000	10.7237	10.7237	8.3000e-004	0.0000	0.0000	10.7444

Otay Lakes Campground Project - San Diego County, Annual

3.5 Architectural Coating - 2020
Unmitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6300e-003	1.9500e-003	0.0191	6.0000e-005	5.7300e-003	4.0000e-005	5.7700e-003	1.5200e-003	4.0000e-005	1.5600e-003	0.0000	5.1756	5.1756	1.6000e-004	0.0000	5.1795
Total	2.6300e-003	1.9500e-003	0.0191	6.0000e-005	5.7300e-003	4.0000e-005	5.7700e-003	1.5200e-003	4.0000e-005	1.5600e-003	0.0000	5.1756	5.1756	1.6000e-004	0.0000	5.1795

Mitigated Construction On-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Archit. Coating	0.0353					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0707	0.0769	1.2000e-004		4.6600e-003	4.6600e-003	4.6600e-003	4.6600e-003	4.6600e-003	0.0000	10.7237	10.7237	8.3000e-004	0.0000	10.7444
Total	0.0455	0.0707	0.0769	1.2000e-004		4.6600e-003	4.6600e-003	4.6600e-003	4.6600e-003	4.6600e-003	0.0000	10.7237	10.7237	8.3000e-004	0.0000	10.7444

Otay Lakes Campground Project - San Diego County, Annual

3.5 Architectural Coating - 2020

Mitigated Construction Off-Site

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6300e-003	1.9500e-003	0.0191	6.0000e-005	5.7300e-003	4.0000e-005	5.7700e-003	1.5200e-003	4.0000e-005	1.5600e-003	0.0000	5.1756	5.1756	1.6000e-004	0.0000	5.1795
Total	2.6300e-003	1.9500e-003	0.0191	6.0000e-005	5.7300e-003	4.0000e-005	5.7700e-003	1.5200e-003	4.0000e-005	1.5600e-003	0.0000	5.1756	5.1756	1.6000e-004	0.0000	5.1795

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Otay Lakes Campground Project - San Diego County, Annual

Category	tons/yr													MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Mitigated	0.0675	0.2860	0.7343	2.2600e-003	0.1846	2.3000e-003	0.1869	0.0494	2.1600e-003	0.0516	0.0000	208.0345	208.0345	0.0119	0.0000	208.3308	
Unmitigated	0.0675	0.2860	0.7343	2.2600e-003	0.1846	2.3000e-003	0.1869	0.0494	2.1600e-003	0.0516	0.0000	208.0345	208.0345	0.0119	0.0000	208.3308	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
City Park	175.96	527.94	197.98	489,714	489,714	489,714	489,714
Total	175.96	527.94	197.98	489,714	489,714	489,714	489,714

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-C	H-O or C-NW	H-S or C-C	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	48.00	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.588316	0.042313	0.184449	0.110793	0.017294	0.005558	0.015534	0.023021	0.001902	0.002024	0.006181	0.000745	0.001271

5.0 Energy Detail

Historical Energy Use: N

Otay Lakes Campground Project - San Diego County, Annual

5.2 Energy by Land Use - Natural Gas

Mitigated

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

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh/yr	MT/yr				
		Total CO2	CH4	N2O	CO2e	
City Park	0	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000	0.0000

Otay Lakes Campground Project - San Diego County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
City Park	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

Category	tons/yr																
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Mitigated	0.0173	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0000	0.0000	9.0000e-005
Unmitigated	0.0173	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0000	0.0000	9.0000e-005

Otay Lakes Campground Project - San Diego County, Annual

6.2 Area by SubCategory

Unmitigated

SubCategory	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Architectural Coating	3.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0137					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	4.0000e-005	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
Total	0.0173	0.0000	4.0000e-005	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

SubCategory	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Architectural Coating	3.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0137					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	4.0000e-005	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
Total	0.0173	0.0000	4.0000e-005	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

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.5539	7.9000e-004	1.6000e-004	19.6221
Unmitigated	19.5539	7.9000e-004	1.6000e-004	19.6221

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 5.3855	19.5539	7.9000e-004	1.6000e-004	19.6221
Total		19.5539	7.9000e-004	1.6000e-004	19.6221

Otay Lakes Campground Project - San Diego County, Annual

7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
City Park	0 / 5.3855	19.5539	7.9000e-004	1.6000e-004	19.6221
Total		19.5539	7.9000e-004	1.6000e-004	19.6221

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

Category/Year	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0792	4.6800e-003	0.0000	0.1961
Unmitigated	0.0792	4.6800e-003	0.0000	0.1961

Otay Lakes Campground Project - San Diego County, Annual

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
City Park	0.39	0.0792	4.6800e-003	0.0000	0.1961
Total		0.0792	4.6800e-003	0.0000	0.1961

Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
City Park	0.39	0.0792	4.6800e-003	0.0000	0.1961
Total		0.0792	4.6800e-003	0.0000	0.1961

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Otay Lakes Campground Project - San Diego County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
