

Appendix A:
Alternate Residential Development Scenarios
for the West Coyote Hills Environmental Impact
Report Addendum

Appendix A: Alternate Residential Development Scenarios for the West Coyote Hills Environmental Impact Report Addendum

As described in the letter report regarding the air quality review for the West Coyote Hills Environmental Impact Report Addendum No. 1, the distribution of residential units in the proposed project under VTTM 17609 is 204 single family attached (SFA) units and 553 single family detached (SFD) units, for a total of 757 residential units on the project site.

The Specific Plan for the site provides flexibility regarding the number and type of residential dwelling units, subject to a site maximum of 760 units. In order to quantify the variability in air pollutant emissions related to flexibility in the distribution of housing types under the Specific Plan, two additional residential scenarios model with 760 residential units were evaluated:

- Case 1 assumes the maximum number of SFA units allowable under the Specific Plan, a total of 224 SFA units, would be constructed, and the remaining 536 units would be SFD units.
- Case 2 assumes the maximum number of SFD units allowable under the Specific Plan, a total of 570 units, would be constructed, and the remaining 190 units would be SFA units.

These two scenarios bracket the possible range of expected air pollutant emissions and air pollutant emissions reductions from the residential development. The results of these analyses are reflected below.

Case 1:

Table A-1. Maximum Number of SFA Units, Project Phasing – VTTM 17609				
Phase	Operation	Area Affected/	Anticipated Commencement	Duration
		No. of DUs		
1A	Grading	155.0 Acres – Total	Fall 2016	12 Months ¹
1B	Grading	161.1 Acres – Total	Fall 2016	12 Months ¹
1A/1B	Remediation	3.4 Acres – Total	Fall 2016	3 Months
		0.9 Acre – Daily		
1A	Buildings and Infrastructure	75 SFD	Fall 2017	24 Months
1B	Buildings and Infrastructure	211 SFD	Fall 2017	36 Months
2A	Grading	32.0 Acres – Total	Fall 2016	12 Months ¹
2B	Grading	162.0 – Total	Fall 2021	12 Months ¹
2A	Buildings and Infrastructure	250 SFD	Fall 2022	36 Months
2B	Buildings and Infrastructure	224 SFA/MFR	Fall 2022	36 Months

Notes:
¹Phases 1A, 1B, and 2A would be graded concurrently in 12 months. Phase 2B would be graded separately in a second 12-month period. There is a project maximum of 14 acres of grading in any one day.

SourceE: Pacific Coast Homes (November 2014)

Acronyms:
DU: Dwelling Units
SFD: Single Family Detached
SFA: Single Family Attached
MFR: Multi-family Residence

Table A-2. CAP Emissions from the Maximum Number of SFA Units; Construction, Unmitigated (pounds/day)						
Source	CO	NOx	VOC	SOx	PM₁₀	PM_{2.5}
2008 Recirculated DEIR	1,311.6	982.0	436.3	0.20	691.1	166.0
CalEEMod for Revised Project	130.2	203.8	58.6	0.20	56.9	33.2
SCAQMD Significance Threshold	550	100	75	150	150	55

Table A-3. CAP Emissions from the Maximum Number of SFA Units; Operation, Unmitigated (pounds/day)

Source	CO	NOx	ROG	SO2	PM ₁₀ Total	PM _{2.5} Total
2008 Recirculated DEIR	965.1	139.9	138.9	0.80	83.7	82.9
CalEEMod for Revised Project	280.4	50.5	62.7	0.74	53.4	18.1
SCAQMD Significance Threshold	550	55	55	150	150	55

Case 2:

Table A-4. Maximum Number of SFD Units, Project Phasing – VTTM 17609

Phase	Operation	Area Affected/ No. of DUs	Anticipated Commencement	Duration
1A	Grading	155.0 Acres – Total	Fall 2016	12 Months ¹
1B	Grading	161.1 Acres – Total	Fall 2016	12 Months ¹
1A/1B	Remediation	3.4 Acres – Total	Fall 2016	3 Months
		0.9 Acre – Daily		
1A	Buildings and Infrastructure	75 SFD	Fall 2017	24 Months
1B	Buildings and Infrastructure	211 SFD	Fall 2017	36 Months
2A	Grading	32.0 Acres – Total	Fall 2016	12 Months ¹
2B	Grading	162.0 – Total	Fall 2021	12 Months ¹
2A	Buildings and Infrastructure	284 SFD	Fall 2022	36 Months
2B	Buildings and Infrastructure	190 SFA/MFR	Fall 2022	36 Months

Notes:

¹Phases 1A, 1B, and 2A would be graded concurrently in 12 months. Phase 2B would be graded separately in a second 12-month period. There is a project maximum of 14 acres of grading in any one day.

SOURCE: Pacific Coast Homes (November 2014)

Acronyms:

DU: Dwelling Units

SFD: Single Family Detached

SFA: Single Family Attached

MFR: Multi-family Residence

Table A-5. CAP Emissions from the Maximum Number of SFD Units; Construction, Unmitigated (pounds/day)

Source	CO	NOx	VOC	SOx	PM ₁₀	PM _{2.5}
2008 Recirculated DEIR	1,311.6	982.0	436.3	0.20	691.1	166.0
CalEEMod for Revised Project	130.2	203.8	58.6	0.20	56.9	33.2
SCAQMD Significance Threshold	550	100	75	150	150	55

Table A-6. CAP Emissions from the Maximum Number of SFD Units; Operation, Unmitigated (pounds/day)

Source	CO	NOx	ROG	SO2	PM ₁₀ Total	PM _{2.5} Total
2008 Recirculated DEIR	965.1	139.9	138.9	0.80	83.7	82.9
CalEEMod for Revised Project	283.0	51.2	63.6	0.75	54.0	18.3
SCAQMD Significance Threshold	550	55	55	150	150	55

Appendix B:
CalEEMod Output Files for the West Coyote Hills
Environmental Impact Report Addendum

Appendix B: CalEEMod Output Files for the West Coyote Hills Environmental Impact Report Addendum

As described in the letter report regarding the air quality review for the West Coyote Hills Environmental Impact Report Addendum, the CalEEMod program was run to estimate emissions from construction and operation of the Revised Project. The CalEEMod output for the seven construction runs and two operational runs are presented below.

WCH-MitConstruction-Grading-Phase 1a, 1b, 2a Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	286.00	Dwelling Unit	348.00	514,800.00	818

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/MWhr)	599.3	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS incorporated

Land Use - Updated based on client-provided data

Construction Phase - Updated based on client-provided construction schedule

Grading - Total acres disturbed equals total acres for Phase 1a, 1b, and 2a.

Construction Off-road Equipment Mitigation - Apply Level 3 DPF to all diesel equipment as in MM 4.4-1.

Water exposed area 3 times per day as in MM 4.4- (61% reduction in PM is the CalEEMod default for this frequency).

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstructionPhase	NumDays	620.00	260.00
tblConstructionPhase	PhaseEndDate	9/29/2017	9/30/2017
tblGrading	AcresOfGrading	1,300.00	348.00
tblLandUse	LotAcreage	92.86	348.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	CO2IntensityFactor	630.89	599.3
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	WorkerTripNumber	38.00	33.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

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

2016	0.4078	4.7317	2.7759	3.6800e-003	2.5449	0.2160	2.7609	1.3140	0.1987	1.5128	0.0000	344.1974	344.1974	0.1011	0.0000	346.3213
2017	1.1589	13.3166	7.9368	0.0110	2.5685	0.6056	3.1741	1.3203	0.5572	1.8774	0.0000	1,015.7179	1,015.7179	0.3033	0.0000	1,022.0869
Total	1.5668	18.0483	10.7126	0.0147	5.1134	0.8216	5.9350	2.6343	0.7559	3.3902	0.0000	1,359.9153	1,359.9153	0.4044	0.0000	1,368.4082

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					
2016	0.4078	4.7317	2.7759	3.6800e-003	0.9997	0.0325	1.0322	0.5144	0.0299	0.5443	0.0000	344.1970	344.1970	0.1011	0.0000	346.3209
2017	1.1589	13.3166	7.9367	0.0110	1.0233	0.0911	1.1143	0.5206	0.0838	0.6044	0.0000	1,015.7168	1,015.7168	0.3033	0.0000	1,022.0857
Total	1.5668	18.0483	10.7126	0.0147	2.0230	0.1235	2.1465	1.0350	0.1136	1.1487	0.0000	1,359.9138	1,359.9138	0.4044	0.0000	1,368.4066

	ROG	NOx	CO	SO2	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	60.44	84.97	63.83	60.71	84.97	66.12	0.00	0.00	0.00	0.00	0.00	0.00

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	3.0885	0.0580	4.7562	3.0100e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1952	93.5738	0.0953	2.0600e-003	96.2142
Energy	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	992.0123	992.0123	0.0351	0.0136	996.9659

Mobile	1.2928	3.2259	14.7928	0.0485	3.5185	0.0498	3.5683	0.9402	0.0460	0.9862	0.0000	3,357.1615	3,357.1615	0.1221	0.0000	3,359.7258
Waste						0.0000	0.0000		0.0000	0.0000	68.0791	0.0000	68.0791	4.0234	0.0000	152.5697
Water						0.0000	0.0000		0.0000	0.0000	5.9117	101.4361	107.3479	0.6121	0.0154	124.9613
Total	4.4258	3.6645	19.7110	0.0540	3.5185	0.3699	3.8884	0.9402	0.3661	1.3063	104.3695	4,513.8052	4,618.1746	4.8880	0.0310	4,730.4367

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.0885	0.0580	4.7562	3.0100e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1952	93.5738	0.0953	2.0600e-003	96.2142
Energy	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	992.0123	992.0123	0.0351	0.0136	996.9659
Mobile	1.2928	3.2259	14.7928	0.0485	3.5185	0.0498	3.5683	0.9402	0.0460	0.9862	0.0000	3,357.1615	3,357.1615	0.1221	0.0000	3,359.7258
Waste						0.0000	0.0000		0.0000	0.0000	68.0791	0.0000	68.0791	4.0234	0.0000	152.5697
Water						0.0000	0.0000		0.0000	0.0000	5.9117	101.4361	107.3479	0.6120	0.0153	124.9518
Total	4.4258	3.6645	19.7110	0.0540	3.5185	0.3699	3.8884	0.9402	0.3661	1.3063	104.3695	4,513.8052	4,618.1746	4.8879	0.0310	4,730.4273

	ROG	NOx	CO	SO2	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	0.06	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
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1	Grading	Grading	10/1/2016	9/30/2017	5	260
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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 348

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Crawler Tractors	3	8.00	208	0.43
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	3	8.00	174	0.41
Grading	Rubber Tired Dozers	3	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	15	33.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2016

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					2.5331	0.0000	2.5331	1.3109	0.0000	1.3109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4042	4.7263	2.7193	3.5400e-003		0.2159	0.2159		0.1986	0.1986	0.0000	333.5849	333.5849	0.1006	0.0000	335.6979
Total	0.4042	4.7263	2.7193	3.5400e-003	2.5331	0.2159	2.7491	1.3109	0.1986	1.5096	0.0000	333.5849	333.5849	0.1006	0.0000	335.6979

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6600e-003	5.4300e-003	0.0566	1.4000e-004	0.0118	8.0000e-005	0.0119	3.1300e-003	8.0000e-005	3.2000e-003	0.0000	10.6125	10.6125	5.2000e-004	0.0000	10.6234
Total	3.6600e-003	5.4300e-003	0.0566	1.4000e-004	0.0118	8.0000e-005	0.0119	3.1300e-003	8.0000e-005	3.2000e-003	0.0000	10.6125	10.6125	5.2000e-004	0.0000	10.6234

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9879	0.0000	0.9879	0.5113	0.0000	0.5113	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4042	4.7263	2.7193	3.5400e-003		0.0324	0.0324		0.0298	0.0298	0.0000	333.5845	333.5845	0.1006	0.0000	335.6975

Total	0.4042	4.7263	2.7193	3.5400e-003	0.9879	0.0324	1.0203	0.5113	0.0298	0.5411	0.0000	333.5845	333.5845	0.1006	0.0000	335.6975
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6600e-003	5.4300e-003	0.0566	1.4000e-004	0.0118	8.0000e-005	0.0119	3.1300e-003	8.0000e-005	3.2000e-003	0.0000	10.6125	10.6125	5.2000e-004	0.0000	10.6234
Total	3.6600e-003	5.4300e-003	0.0566	1.4000e-004	0.0118	8.0000e-005	0.0119	3.1300e-003	8.0000e-005	3.2000e-003	0.0000	10.6125	10.6125	5.2000e-004	0.0000	10.6234

3.2 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.5331	0.0000	2.5331	1.3109	0.0000	1.3109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1489	13.3018	7.7822	0.0106		0.6054	0.6054		0.5569	0.5569	0.0000	985.1124	985.1124	0.3018	0.0000	991.4510
Total	1.1489	13.3018	7.7822	0.0106	2.5331	0.6054	3.1385	1.3109	0.5569	1.8678	0.0000	985.1124	985.1124	0.3018	0.0000	991.4510

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9900e-003	0.0148	0.1546	4.2000e-004	0.0353	2.5000e-004	0.0356	9.3800e-003	2.3000e-004	9.6100e-003	0.0000	30.6055	30.6055	1.4500e-003	0.0000	30.6359
Total	9.9900e-003	0.0148	0.1546	4.2000e-004	0.0353	2.5000e-004	0.0356	9.3800e-003	2.3000e-004	9.6100e-003	0.0000	30.6055	30.6055	1.4500e-003	0.0000	30.6359

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9879	0.0000	0.9879	0.5113	0.0000	0.5113	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1489	13.3018	7.7822	0.0106		0.0908	0.0908		0.0835	0.0835	0.0000	985.1112	985.1112	0.3018	0.0000	991.4498
Total	1.1489	13.3018	7.7822	0.0106	0.9879	0.0908	1.0787	0.5113	0.0835	0.5948	0.0000	985.1112	985.1112	0.3018	0.0000	991.4498

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9900e-003	0.0148	0.1546	4.2000e-004	0.0353	2.5000e-004	0.0356	9.3800e-003	2.3000e-004	9.6100e-003	0.0000	30.6055	30.6055	1.4500e-003	0.0000	30.6359
Total	9.9900e-003	0.0148	0.1546	4.2000e-004	0.0353	2.5000e-004	0.0356	9.3800e-003	2.3000e-004	9.6100e-003	0.0000	30.6055	30.6055	1.4500e-003	0.0000	30.6359

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2928	3.2259	14.7928	0.0485	3.5185	0.0498	3.5683	0.9402	0.0460	0.9862	0.0000	3,357.1615	3,357.1615	0.1221	0.0000	3,359.7258
Unmitigated	1.2928	3.2259	14.7928	0.0485	3.5185	0.0498	3.5683	0.9402	0.0460	0.9862	0.0000	3,357.1615	3,357.1615	0.1221	0.0000	3,359.7258

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	2,737.02	2,882.88	2508.22	9,312,325	9,312,325
Total	2,737.02	2,882.88	2,508.22	9,312,325	9,312,325

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508857	0.056420	0.193204	0.150829	0.041936	0.005921	0.015893	0.015805	0.001454	0.002159	0.004747	0.000498	0.002277

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	551.1909	551.1909	0.0267	5.5200e-003	553.4617
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	551.1909	551.1909	0.0267	5.5200e-003	553.4617
Natural Gas Mitigated	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042
Natural Gas Unmitigated	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	8.26068e+006	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042

Total		0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042
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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					
Single Family Housing	8.26068e+006	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042
Total		0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	2.02765e+006	551.1909	0.0267	5.5200e-003	553.4617
Total		551.1909	0.0267	5.5200e-003	553.4617

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	2.02765e+006	551.1909	0.0267	5.5200e-003	553.4617
Total		551.1909	0.0267	5.5200e-003	553.4617

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.0885	0.0580	4.7562	3.0100e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1952	93.5738	0.0953	2.0600e-003	96.2142
Unmitigated	3.0885	0.0580	4.7562	3.0100e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1952	93.5738	0.0953	2.0600e-003	96.2142

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	0.2013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.9368	0.0238	1.7969	2.8600e-003		0.2731	0.2731		0.2731	0.2731	30.3787	58.3773	88.7560	0.0906	2.0600e-003	91.2977
Landscaping	0.0901	0.0342	2.9592	1.6000e-004		0.0163	0.0163		0.0163	0.0163	0.0000	4.8178	4.8178	4.7000e-003	0.0000	4.9165
Total	3.0885	0.0580	4.7562	3.0200e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1952	93.5738	0.0953	2.0600e-003	96.2142

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					
Consumer Products	1.8602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.9368	0.0238	1.7969	2.8600e-003		0.2731	0.2731		0.2731	0.2731	30.3787	58.3773	88.7560	0.0906	2.0600e-003	91.2977
Landscaping	0.0901	0.0342	2.9592	1.6000e-004		0.0163	0.0163		0.0163	0.0163	0.0000	4.8178	4.8178	4.7000e-003	0.0000	4.9165
Architectural Coating	0.2013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.0885	0.0580	4.7562	3.0200e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1952	93.5738	0.0953	2.0600e-003	96.2142

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			

Mitigated	107.3479	0.6120	0.0153	124.9518
Unmitigated	107.3479	0.6121	0.0154	124.9613

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	18.6341 / 11.7476	107.3479	0.6121	0.0154	124.9613
Total		107.3479	0.6121	0.0154	124.9613

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	18.6341 / 11.7476	107.3479	0.6120	0.0153	124.9518
Total		107.3479	0.6120	0.0153	124.9518

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	68.0791	4.0234	0.0000	152.5697
Unmitigated	68.0791	4.0234	0.0000	152.5697

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	335.38	68.0791	4.0234	0.0000	152.5697
Total		68.0791	4.0234	0.0000	152.5697

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
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Land Use	tons	MT/yr			
Single Family Housing	335.38	68.0791	4.0234	0.0000	152.5697
Total		68.0791	4.0234	0.0000	152.5697

9.0 Operational Offroad

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

WCH-MitConstruction-Remediation - Phase 1a + 1b Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	3.40	Acre	3.40	148,104.00	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/MWhr)	599.3	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS incorporated

Land Use - Updated based on client-provided information.

Construction Phase - Updated based on client-provided construction schedule.

Off-road Equipment - Updated based on equipment counts on page 22 of AQ chapter. "Mechanical screening units" modeled as "Other Material Handling Equipment."

Trips and VMT - Hauling trips as specified by page 22 of AQ report.

Construction Off-road Equipment Mitigation - Apply Level 3 DPF to all diesel equipment as in MM 4.4-1.

Water exposed area 3 times per day as in MM 4.4- (61% reduction in PM is the CalEEMod default for this frequency.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	8.00	65.00
tblConstructionPhase	PhaseEndDate	12/30/2016	12/31/2016
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	CO2IntensityFactor	630.89	599.3
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	0.00	1,500.00
tblTripsAndVMT	WorkerTripNumber	15.00	8.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.0892	0.9673	0.6287	1.1800e-003	0.2287	0.0491	0.2777	0.1137	0.0452	0.1589	0.0000	108.7829	108.7829	0.0173	0.0000	109.1467
Total	0.0892	0.9673	0.6287	1.1800e-003	0.2287	0.0491	0.2777	0.1137	0.0452	0.1589	0.0000	108.7829	108.7829	0.0173	0.0000	109.1467

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					
2016	0.0892	0.9673	0.6287	1.1800e-003	0.0988	0.0491	0.1478	0.0470	0.0452	0.0921	0.0000	108.7828	108.7828	0.0173	0.0000	109.1466
Total	0.0892	0.9673	0.6287	1.1800e-003	0.0988	0.0491	0.1478	0.0470	0.0452	0.0921	0.0000	108.7828	108.7828	0.0173	0.0000	109.1466

	ROG	NOx	CO	SO2	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	56.81	0.00	46.77	58.70	0.00	42.02	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7068	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
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	0.7068	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	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	tons/yr										MT/yr					
Area	0.7068	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
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	0.7068	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	9.0000e-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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2016	12/31/2016	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 32.5

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Graders	1	8.00	174	0.41
Grading	Other Material Handling Equipment	1	8.00	167	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	8.00	0.00	1,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2130	0.0000	0.2130	0.1094	0.0000	0.1094	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.7485	0.4479	5.9000e-004		0.0459	0.0459		0.0423	0.0423	0.0000	55.8207	55.8207	0.0168	0.0000	56.1743
Total	0.0740	0.7485	0.4479	5.9000e-004	0.2130	0.0459	0.2589	0.1094	0.0423	0.1517	0.0000	55.8207	55.8207	0.0168	0.0000	56.1743

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	0.0143	0.2175	0.1671	5.5000e-004	0.0129	3.1100e-003	0.0160	3.5300e-003	2.8600e-003	6.3900e-003	0.0000	50.3894	50.3894	3.6000e-004	0.0000	50.3970
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	8.9000e-004	1.3200e-003	0.0137	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.5727	2.5727	1.3000e-004	0.0000	2.5754
Total	0.0152	0.2188	0.1808	5.8000e-004	0.0157	3.1300e-003	0.0188	4.2900e-003	2.8800e-003	7.1700e-003	0.0000	52.9621	52.9621	4.9000e-004	0.0000	52.9724

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0831	0.0000	0.0831	0.0427	0.0000	0.0427	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.7485	0.4479	5.9000e-004		0.0459	0.0459		0.0423	0.0423	0.0000	55.8207	55.8207	0.0168	0.0000	56.1743
Total	0.0740	0.7485	0.4479	5.9000e-004	0.0831	0.0459	0.1290	0.0427	0.0423	0.0850	0.0000	55.8207	55.8207	0.0168	0.0000	56.1743

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	0.0143	0.2175	0.1671	5.5000e-004	0.0129	3.1100e-003	0.0160	3.5300e-003	2.8600e-003	6.3900e-003	0.0000	50.3894	50.3894	3.6000e-004	0.0000	50.3970
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	8.9000e-004	1.3200e-003	0.0137	3.0000e-005	2.8500e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.5727	2.5727	1.3000e-004	0.0000	2.5754
Total	0.0152	0.2188	0.1808	5.8000e-004	0.0157	3.1300e-003	0.0188	4.2900e-003	2.8800e-003	7.1700e-003	0.0000	52.9621	52.9621	4.9000e-004	0.0000	52.9724

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	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
Other Non-Asphalt Surfaces	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508857	0.056420	0.193204	0.150829	0.041936	0.005921	0.015893	0.015805	0.001454	0.002159	0.004747	0.000498	0.002277

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	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					
Other Non-Asphalt Surfaces	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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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					
Other Non-Asphalt Surfaces	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			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	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	0.7068	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
Unmitigated	0.7068	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

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	0.1716					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5352					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	0.7068	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1716					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5352					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	0.7068	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	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			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	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			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Total		0.0000	0.0000	0.0000	0.0000
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9.0 Operational Offroad

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

WCH - MitConstruction - Bldg Construction Phase 1a+1b Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	22.20	Acre	22.20	967,032.00	0
Single Family Housing	286.00	Dwelling Unit	92.86	514,800.00	818

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/MWhr)	599.3	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS

Land Use - updated with new client information

Construction Phase - Set to 24 months - based on client provided data

Construction Off-road Equipment Mitigation - Apply Level 3 DPF to all diesel equipment as in MM 4.4-1.

Water exposed area 3 times per day as in MM 4.4- (61% reduction in PM is the CalEEMod default for this frequency).

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	220.00	521.00
tblConstructionPhase	NumDays	3,100.00	521.00
tblConstructionPhase	NumDays	220.00	521.00
tblConstructionPhase	PhaseEndDate	9/28/2021	9/30/2019
tblConstructionPhase	PhaseEndDate	9/28/2021	9/30/2019
tblConstructionPhase	PhaseStartDate	10/1/2019	10/1/2017
tblConstructionPhase	PhaseStartDate	10/1/2019	10/1/2017
tblProjectCharacteristics	CO2IntensityFactor	630.89	599.3
tblProjectCharacteristics	OperationalYear	2014	2020

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	1.9424	2.1866	2.7914	5.6700e-003	0.2612	0.1096	0.3708	0.0701	0.1024	0.1725	0.0000	465.3615	465.3615	0.0506	0.0000	466.4245
2018	7.6632	7.7372	10.6350	0.0228	1.0487	0.3719	1.4205	0.2815	0.3476	0.6291	0.0000	1,823.6162	1,823.6162	0.1991	0.0000	1,827.7981
2019	5.6522	5.2031	7.6171	0.0170	0.7835	0.2413	1.0248	0.2103	0.2256	0.4359	0.0000	1,334.3869	1,334.3869	0.1464	0.0000	1,337.4616
Total	15.2578	15.1269	21.0435	0.0455	2.0934	0.7228	2.8161	0.5619	0.6756	1.2376	0.0000	3,623.3646	3,623.3646	0.3962	0.0000	3,631.6842

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	1.9424	2.1865	2.7914	5.6700e-003	0.2612	0.0242	0.2854	0.0701	0.0225	0.0926	0.0000	465.3613	465.3613	0.0506	0.0000	466.4243
2018	7.6632	7.7372	10.6350	0.0228	1.0487	0.0853	1.1340	0.2815	0.0793	0.3608	0.0000	1,823.6155	1,823.6155	0.1991	0.0000	1,827.7974
2019	5.6522	5.2031	7.6170	0.0170	0.7835	0.0571	0.8406	0.2103	0.0531	0.2634	0.0000	1,334.3864	1,334.3864	0.1464	0.0000	1,337.4610
Total	15.2578	15.1269	21.0434	0.0455	2.0934	0.1665	2.2599	0.5619	0.1549	0.7168	0.0000	3,623.3631	3,623.3631	0.3962	0.0000	3,631.6827

	ROG	NOx	CO	SO2	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	76.96	19.75	0.00	77.08	42.08	0.00	0.00	0.00	0.00	0.00	0.00

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	7.7034	0.0580	4.7565	3.0100e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1957	93.5744	0.0953	2.0600e-003	96.2147
Energy	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	992.0123	992.0123	0.0351	0.0136	996.9659
Mobile	1.2928	3.2259	14.7928	0.0485	3.5185	0.0498	3.5683	0.9402	0.0460	0.9862	0.0000	3,357.1615	3,357.1615	0.1221	0.0000	3,359.7258
Waste						0.0000	0.0000		0.0000	0.0000	68.0791	0.0000	68.0791	4.0234	0.0000	152.5697
Water						0.0000	0.0000		0.0000	0.0000	5.9117	101.4361	107.3479	0.6121	0.0154	124.9613
Total	9.0407	3.6646	19.7112	0.0540	3.5185	0.3699	3.8884	0.9402	0.3661	1.3063	104.3695	4,513.8057	4,618.1752	4.8880	0.0310	4,730.4373

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	7.7034	0.0580	4.7565	3.0100e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1957	93.5744	0.0953	2.0600e-003	96.2147
Energy	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	992.0123	992.0123	0.0351	0.0136	996.9659
Mobile	1.2928	3.2259	14.7928	0.0485	3.5185	0.0498	3.5683	0.9402	0.0460	0.9862	0.0000	3,357.1615	3,357.1615	0.1221	0.0000	3,359.7258
Waste						0.0000	0.0000		0.0000	0.0000	68.0791	0.0000	68.0791	4.0234	0.0000	152.5697
Water						0.0000	0.0000		0.0000	0.0000	5.9117	101.4361	107.3479	0.6120	0.0153	124.9518
Total	9.0407	3.6646	19.7112	0.0540	3.5185	0.3699	3.8884	0.9402	0.3661	1.3063	104.3695	4,513.8057	4,618.1752	4.8879	0.0310	4,730.4279

	ROG	NOx	CO	SO2	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	0.06	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	Building Construction	Building Construction	10/1/2017	9/30/2019	5	521	
2	Paving	Paving	10/1/2017	9/30/2019	5	521	
3	Architectural Coating	Architectural Coating	10/1/2017	9/30/2019	5	521	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,042,470; Residential Outdoor: 347,490; Non-Residential Indoor: 1,450,548; Non-Residential Outdoor: 483,516

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class

Building Construction	9	509.00	189.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	102.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1008	0.8582	0.5892	8.7000e-004		0.0579	0.0579		0.0544	0.0544	0.0000	77.8307	77.8307	0.0192	0.0000	78.2330
Total	0.1008	0.8582	0.5892	8.7000e-004		0.0579	0.0579		0.0544	0.0544	0.0000	77.8307	77.8307	0.0192	0.0000	78.2330

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0528	0.5042	0.6856	1.3200e-003	0.0378	7.5500e-003	0.0454	0.0108	6.9400e-003	0.0177	0.0000	118.4532	118.4532	8.4000e-004	0.0000	118.4708

Worker	0.0514	0.0760	0.7946	2.1600e-003	0.1816	1.2600e-003	0.1829	0.0482	1.1700e-003	0.0494	0.0000	157.3557	157.3557	7.4300e-003	0.0000	157.5118
Total	0.1042	0.5802	1.4802	3.4800e-003	0.2194	8.8100e-003	0.2282	0.0590	8.1100e-003	0.0671	0.0000	275.8089	275.8089	8.2700e-003	0.0000	275.9826

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1008	0.8582	0.5892	8.7000e-004		8.6800e-003	8.6800e-003		8.1600e-003	8.1600e-003	0.0000	77.8306	77.8306	0.0192	0.0000	78.2329
Total	0.1008	0.8582	0.5892	8.7000e-004		8.6800e-003	8.6800e-003		8.1600e-003	8.1600e-003	0.0000	77.8306	77.8306	0.0192	0.0000	78.2329

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0528	0.5042	0.6856	1.3200e-003	0.0378	7.5500e-003	0.0454	0.0108	6.9400e-003	0.0177	0.0000	118.4532	118.4532	8.4000e-004	0.0000	118.4708
Worker	0.0514	0.0760	0.7946	2.1600e-003	0.1816	1.2600e-003	0.1829	0.0482	1.1700e-003	0.0494	0.0000	157.3557	157.3557	7.4300e-003	0.0000	157.5118
Total	0.1042	0.5802	1.4802	3.4800e-003	0.2194	8.8100e-003	0.2282	0.0590	8.1100e-003	0.0671	0.0000	275.8089	275.8089	8.2700e-003	0.0000	275.9826

3.2 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3483	3.0355	2.2880	3.5000e-003		0.1950	0.1950		0.1833	0.1833	0.0000	308.9844	308.9844	0.0756	0.0000	310.5723
Total	0.3483	3.0355	2.2880	3.5000e-003		0.1950	0.1950		0.1833	0.1833	0.0000	308.9844	308.9844	0.0756	0.0000	310.5723

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1981	1.8576	2.6285	5.3100e-003	0.1519	0.0286	0.1804	0.0433	0.0263	0.0696	0.0000	467.5559	467.5559	3.3600e-003	0.0000	467.6266
Worker	0.1878	0.2786	2.9150	8.6600e-003	0.7292	5.0100e-003	0.7342	0.1937	4.6400e-003	0.1983	0.0000	608.1523	608.1523	0.0278	0.0000	608.7371
Total	0.3859	2.1362	5.5435	0.0140	0.8811	0.0336	0.9146	0.2370	0.0309	0.2679	0.0000	1,075.7083	1,075.7083	0.0312	0.0000	1,076.3636

Mitigated Construction On-Site

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

Off-Road	0.3483	3.0355	2.2880	3.5000e-003		0.0293	0.0293		0.0275	0.0275	0.0000	308.9841	308.9841	0.0756	0.0000	310.5720
Total	0.3483	3.0355	2.2880	3.5000e-003		0.0293	0.0293		0.0275	0.0275	0.0000	308.9841	308.9841	0.0756	0.0000	310.5720

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1981	1.8576	2.6285	5.3100e-003	0.1519	0.0286	0.1804	0.0433	0.0263	0.0696	0.0000	467.5559	467.5559	3.3600e-003	0.0000	467.6266
Worker	0.1878	0.2786	2.9150	8.6600e-003	0.7292	5.0100e-003	0.7342	0.1937	4.6400e-003	0.1983	0.0000	608.1523	608.1523	0.0278	0.0000	608.7371
Total	0.3859	2.1362	5.5435	0.0140	0.8811	0.0336	0.9146	0.2370	0.0309	0.2679	0.0000	1,075.7083	1,075.7083	0.0312	0.0000	1,076.3636

3.2 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2293	2.0441	1.6692	2.6100e-003		0.1253	0.1253		0.1178	0.1178	0.0000	228.2697	228.2697	0.0555	0.0000	229.4360
Total	0.2293	2.0441	1.6692	2.6100e-003		0.1253	0.1253		0.1178	0.1178	0.0000	228.2697	228.2697	0.0555	0.0000	229.4360

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1383	1.2866	1.8723	3.9700e-003	0.1135	0.0199	0.1334	0.0324	0.0183	0.0507	0.0000	344.4685	344.4685	2.5300e-003	0.0000	344.5216
Worker	0.1311	0.1929	2.0290	6.5000e-003	0.5448	3.7800e-003	0.5486	0.1447	3.5000e-003	0.1482	0.0000	440.1872	440.1872	0.0199	0.0000	440.6042
Total	0.2694	1.4795	3.9013	0.0105	0.6583	0.0237	0.6820	0.1771	0.0218	0.1989	0.0000	784.6557	784.6557	0.0224	0.0000	785.1258

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2293	2.0441	1.6692	2.6100e-003		0.0188	0.0188		0.0177	0.0177	0.0000	228.2694	228.2694	0.0555	0.0000	229.4358
Total	0.2293	2.0441	1.6692	2.6100e-003		0.0188	0.0188		0.0177	0.0177	0.0000	228.2694	228.2694	0.0555	0.0000	229.4358

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
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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
Vendor	0.1383	1.2866	1.8723	3.9700e-003	0.1135	0.0199	0.1334	0.0324	0.0183	0.0507	0.0000	344.4685	344.4685	2.5300e-003	0.0000	344.5216
Worker	0.1311	0.1929	2.0290	6.5000e-003	0.5448	3.7800e-003	0.5486	0.1447	3.5000e-003	0.1482	0.0000	440.1872	440.1872	0.0199	0.0000	440.6042
Total	0.2694	1.4795	3.9013	0.0105	0.6583	0.0237	0.6820	0.1771	0.0218	0.1989	0.0000	784.6557	784.6557	0.0224	0.0000	785.1258

3.3 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0620	0.6596	0.4786	7.2000e-004		0.0370	0.0370		0.0340	0.0340	0.0000	67.2536	67.2536	0.0206	0.0000	67.6863
Paving	3.6300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0656	0.6596	0.4786	7.2000e-004		0.0370	0.0370		0.0340	0.0340	0.0000	67.2536	67.2536	0.0206	0.0000	67.6863

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5100e-003	2.2400e-003	0.0234	6.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4600e-003	0.0000	4.6372	4.6372	2.2000e-004	0.0000	4.6418

Total	1.5100e-003	2.2400e-003	0.0234	6.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4600e-003	0.0000	4.6372	4.6372	2.2000e-004	0.0000	4.6418
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0620	0.6596	0.4786	7.2000e-004		5.5500e-003	5.5500e-003		5.1100e-003	5.1100e-003	0.0000	67.2535	67.2535	0.0206	0.0000	67.6863
Paving	3.6300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0656	0.6596	0.4786	7.2000e-004		5.5500e-003	5.5500e-003		5.1100e-003	5.1100e-003	0.0000	67.2535	67.2535	0.0206	0.0000	67.6863

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5100e-003	2.2400e-003	0.0234	6.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4600e-003	0.0000	4.6372	4.6372	2.2000e-004	0.0000	4.6418
Total	1.5100e-003	2.2400e-003	0.0234	6.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	3.0000e-005	1.4600e-003	0.0000	4.6372	4.6372	2.2000e-004	0.0000	4.6418

3.3 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2103	2.2397	1.8915	2.9100e-003		0.1225	0.1225		0.1127	0.1127	0.0000	265.8121	265.8121	0.0828	0.0000	267.5499
Paving	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2249	2.2397	1.8915	2.9100e-003		0.1225	0.1225		0.1127	0.1127	0.0000	265.8121	265.8121	0.0828	0.0000	267.5499

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5300e-003	8.2100e-003	0.0859	2.6000e-004	0.0215	1.5000e-004	0.0216	5.7100e-003	1.4000e-004	5.8400e-003	0.0000	17.9220	17.9220	8.2000e-004	0.0000	17.9392
Total	5.5300e-003	8.2100e-003	0.0859	2.6000e-004	0.0215	1.5000e-004	0.0216	5.7100e-003	1.4000e-004	5.8400e-003	0.0000	17.9220	17.9220	8.2000e-004	0.0000	17.9392

Mitigated Construction On-Site

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

Off-Road	0.2103	2.2397	1.8915	2.9100e-003		0.0184	0.0184		0.0169	0.0169	0.0000	265.8118	265.8118	0.0828	0.0000	267.5495
Paving	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.2249	2.2397	1.8915	2.9100e-003		0.0184	0.0184		0.0169	0.0169	0.0000	265.8118	265.8118	0.0828	0.0000	267.5495

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5300e-003	8.2100e-003	0.0859	2.6000e-004	0.0215	1.5000e-004	0.0216	5.7100e-003	1.4000e-004	5.8400e-003	0.0000	17.9220	17.9220	8.2000e-004	0.0000	17.9392
Total	5.5300e-003	8.2100e-003	0.0859	2.6000e-004	0.0215	1.5000e-004	0.0216	5.7100e-003	1.4000e-004	5.8400e-003	0.0000	17.9220	17.9220	8.2000e-004	0.0000	17.9392

3.3 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1390	1.4562	1.4006	2.1800e-003		0.0789	0.0789		0.0726	0.0726	0.0000	195.3848	195.3848	0.0618	0.0000	196.6830
Paving	0.0109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1499	1.4562	1.4006	2.1800e-003		0.0789	0.0789		0.0726	0.0726	0.0000	195.3848	195.3848	0.0618	0.0000	196.6830

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8600e-003	5.6800e-003	0.0598	1.9000e-004	0.0161	1.1000e-004	0.0162	4.2600e-003	1.0000e-004	4.3700e-003	0.0000	12.9721	12.9721	5.9000e-004	0.0000	12.9844
Total	3.8600e-003	5.6800e-003	0.0598	1.9000e-004	0.0161	1.1000e-004	0.0162	4.2600e-003	1.0000e-004	4.3700e-003	0.0000	12.9721	12.9721	5.9000e-004	0.0000	12.9844

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1390	1.4562	1.4006	2.1800e-003		0.0118	0.0118		0.0109	0.0109	0.0000	195.3846	195.3846	0.0618	0.0000	196.6827
Paving	0.0109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1499	1.4562	1.4006	2.1800e-003		0.0118	0.0118		0.0109	0.0109	0.0000	195.3846	195.3846	0.0618	0.0000	196.6827

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
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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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8600e-003	5.6800e-003	0.0598	1.9000e-004	0.0161	1.1000e-004	0.0162	4.2600e-003	1.0000e-004	4.3700e-003	0.0000	12.9721	12.9721	5.9000e-004	0.0000	12.9844
Total	3.8600e-003	5.6800e-003	0.0598	1.9000e-004	0.0161	1.1000e-004	0.0162	4.2600e-003	1.0000e-004	4.3700e-003	0.0000	12.9721	12.9721	5.9000e-004	0.0000	12.9844

3.4 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6492					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0710	0.0607	1.0000e-004		5.6300e-003	5.6300e-003		5.6300e-003	5.6300e-003	0.0000	8.2981	8.2981	8.8000e-004	0.0000	8.3165
Total	1.6600	0.0710	0.0607	1.0000e-004		5.6300e-003	5.6300e-003		5.6300e-003	5.6300e-003	0.0000	8.2981	8.2981	8.8000e-004	0.0000	8.3165

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	0.0152	0.1592	4.3000e-004	0.0364	2.5000e-004	0.0367	9.6600e-003	2.3000e-004	9.9000e-003	0.0000	31.5330	31.5330	1.4900e-003	0.0000	31.5643

Total	0.0103	0.0152	0.1592	4.3000e-004	0.0364	2.5000e-004	0.0367	9.6600e-003	2.3000e-004	9.9000e-003	0.0000	31.5330	31.5330	1.4900e-003	0.0000	31.5643
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6492						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0710	0.0607	1.0000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	8.2981	8.2981	8.8000e-004	0.0000	8.3165
Total	1.6600	0.0710	0.0607	1.0000e-004		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	8.2981	8.2981	8.8000e-004	0.0000	8.3165

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0103	0.0152	0.1592	4.3000e-004	0.0364	2.5000e-004	0.0367	9.6600e-003	2.3000e-004	9.9000e-003	0.0000	31.5330	31.5330	1.4900e-003	0.0000	31.5643
Total	0.0103	0.0152	0.1592	4.3000e-004	0.0364	2.5000e-004	0.0367	9.6600e-003	2.3000e-004	9.9000e-003	0.0000	31.5330	31.5330	1.4900e-003	0.0000	31.5643

3.4 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.6221					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.2618	0.2420	3.9000e-004		0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e-003	0.0000	33.3865
Total	6.6610	0.2618	0.2420	3.9000e-004		0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e-003	0.0000	33.3865

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0376	0.0558	0.5841	1.7400e-003	0.1461	1.0000e-003	0.1471	0.0388	9.3000e-004	0.0397	0.0000	121.8694	121.8694	5.5800e-003	0.0000	121.9866
Total	0.0376	0.0558	0.5841	1.7400e-003	0.1461	1.0000e-003	0.1471	0.0388	9.3000e-004	0.0397	0.0000	121.8694	121.8694	5.5800e-003	0.0000	121.9866

Mitigated Construction On-Site

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

Archit. Coating	6.6221					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.2618	0.2420	3.9000e-004		2.9500e-003	2.9500e-003		2.9500e-003	2.9500e-003	0.0000	33.3200	33.3200	3.1700e-003	0.0000	33.3865
Total	6.6610	0.2618	0.2420	3.9000e-004		2.9500e-003	2.9500e-003		2.9500e-003	2.9500e-003	0.0000	33.3200	33.3200	3.1700e-003	0.0000	33.3865

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0376	0.0558	0.5841	1.7400e-003	0.1461	1.0000e-003	0.1471	0.0388	9.3000e-004	0.0397	0.0000	121.8694	121.8694	5.5800e-003	0.0000	121.9866
Total	0.0376	0.0558	0.5841	1.7400e-003	0.1461	1.0000e-003	0.1471	0.0388	9.3000e-004	0.0397	0.0000	121.8694	121.8694	5.5800e-003	0.0000	121.9866

3.4 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.9475					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0260	0.1790	0.1795	2.9000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	24.8942	24.8942	2.1000e-003	0.0000	24.9384
Total	4.9735	0.1790	0.1795	2.9000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	24.8942	24.8942	2.1000e-003	0.0000	24.9384

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0263	0.0387	0.4066	1.3000e-003	0.1092	7.6000e-004	0.1099	0.0290	7.0000e-004	0.0297	0.0000	88.2104	88.2104	3.9800e-003	0.0000	88.2940
Total	0.0263	0.0387	0.4066	1.3000e-003	0.1092	7.6000e-004	0.1099	0.0290	7.0000e-004	0.0297	0.0000	88.2104	88.2104	3.9800e-003	0.0000	88.2940

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.9475					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0260	0.1790	0.1795	2.9000e-004		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	24.8942	24.8942	2.1000e-003	0.0000	24.9384
Total	4.9735	0.1790	0.1795	2.9000e-004		1.8800e-003	1.8800e-003		1.8800e-003	1.8800e-003	0.0000	24.8942	24.8942	2.1000e-003	0.0000	24.9384

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
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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
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	0.0263	0.0387	0.4066	1.3000e-003	0.1092	7.6000e-004	0.1099	0.0290	7.0000e-004	0.0297	0.0000	88.2104	88.2104	3.9800e-003	0.0000	88.2940
Total	0.0263	0.0387	0.4066	1.3000e-003	0.1092	7.6000e-004	0.1099	0.0290	7.0000e-004	0.0297	0.0000	88.2104	88.2104	3.9800e-003	0.0000	88.2940

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2928	3.2259	14.7928	0.0485	3.5185	0.0498	3.5683	0.9402	0.0460	0.9862	0.0000	3,357.1615	3,357.1615	0.1221	0.0000	3,359.7258
Unmitigated	1.2928	3.2259	14.7928	0.0485	3.5185	0.0498	3.5683	0.9402	0.0460	0.9862	0.0000	3,357.1615	3,357.1615	0.1221	0.0000	3,359.7258

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	2,737.02	2,882.88	2508.22	9,312,325	9,312,325
Total	2,737.02	2,882.88	2,508.22	9,312,325	9,312,325

4.3 Trip Type Information

	Miles	Trip %	Trip Purpose %

Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508857	0.056420	0.193204	0.150829	0.041936	0.005921	0.015893	0.015805	0.001454	0.002159	0.004747	0.000498	0.002277

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	551.1909	551.1909	0.0267	5.5200e-003	553.4617
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	551.1909	551.1909	0.0267	5.5200e-003	553.4617
NaturalGas Mitigated	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042
NaturalGas Unmitigated	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042

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
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Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	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
Single Family Housing	8.26068e+006	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042
Total		0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042

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					
Single Family Housing	8.26068e+006	0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042
Other Asphalt Surfaces	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		0.0445	0.3806	0.1620	2.4300e-003		0.0308	0.0308		0.0308	0.0308	0.0000	440.8214	440.8214	8.4500e-003	8.0800e-003	443.5042

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.02765e+006	551.1909	0.0267	5.5200e-003	553.4617
Total		551.1909	0.0267	5.5200e-003	553.4617

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.02765e+006	551.1909	0.0267	5.5200e-003	553.4617
Total		551.1909	0.0267	5.5200e-003	553.4617

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	7.7034	0.0580	4.7565	3.0100e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1957	93.5744	0.0953	2.0600e-003	96.2147
Unmitigated	7.7034	0.0580	4.7565	3.0100e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1957	93.5744	0.0953	2.0600e-003	96.2147

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.3546					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.9368	0.0238	1.7969	2.8600e-003		0.2731	0.2731		0.2731	0.2731	30.3787	58.3773	88.7560	0.0906	2.0600e-003	91.2977
Landscaping	0.0901	0.0342	2.9595	1.6000e-004		0.0163	0.0163		0.0163	0.0163	0.0000	4.8184	4.8184	4.7000e-003	0.0000	4.9171
Total	7.7034	0.0580	4.7565	3.0200e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1957	93.5744	0.0953	2.0600e-003	96.2147

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.3219					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.3546					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.9368	0.0238	1.7969	2.8600e-003		0.2731	0.2731		0.2731	0.2731	30.3787	58.3773	88.7560	0.0906	2.0600e-003	91.2977
Landscaping	0.0901	0.0342	2.9595	1.6000e-004		0.0163	0.0163		0.0163	0.0163	0.0000	4.8184	4.8184	4.7000e-003	0.0000	4.9171
Total	7.7034	0.0580	4.7565	3.0200e-003		0.2894	0.2894		0.2893	0.2893	30.3787	63.1957	93.5744	0.0953	2.0600e-003	96.2147

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	107.3479	0.6120	0.0153	124.9518
Unmitigated	107.3479	0.6121	0.0154	124.9613

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	18.6341 / 11.7476	107.3479	0.6121	0.0154	124.9613
Total		107.3479	0.6121	0.0154	124.9613

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	18.6341 / 11.7476	107.3479	0.6120	0.0153	124.9518

Total		107.3479	0.6120	0.0153	124.9518
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8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	68.0791	4.0234	0.0000	152.5697
Unmitigated	68.0791	4.0234	0.0000	152.5697

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	335.38	68.0791	4.0234	0.0000	152.5697
Total		68.0791	4.0234	0.0000	152.5697

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	335.38	68.0791	4.0234	0.0000	152.5697
Total		68.0791	4.0234	0.0000	152.5697

9.0 Operational Offroad

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

WCH - MitConstruction - Bldg Construction - Phase 1b Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	8.70	Acre	8.70	378,972.00	0
Single Family Housing	211.00	Dwelling Unit	68.51	379,800.00	603

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8	Operational Year		2022	
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	599.3	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - incorporated RPS

Land Use - Updated based on client-provided data.

Construction Phase - Updated based on client-provided construction schedule

Construction Off-road Equipment Mitigation - Apply Level 3 DPF to all diesel equipment as in MM 4.4-1.

Water exposed area 3 times per day as in MM 4.4- (61% reduction in PM is the CalEEMod default for this frequency).

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	110.00	262.00
tblConstructionPhase	NumDays	1,550.00	262.00
tblConstructionPhase	NumDays	110.00	262.00
tblConstructionPhase	PhaseEndDate	10/1/2021	9/30/2020
tblConstructionPhase	PhaseEndDate	10/1/2021	9/30/2020
tblConstructionPhase	PhaseStartDate	10/1/2020	10/1/2019
tblConstructionPhase	PhaseStartDate	10/1/2020	10/1/2019
tblProjectCharacteristics	CO2IntensityFactor	630.89	599.3
tblProjectCharacteristics	OperationalYear	2014	2022

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	1.6636	1.4792	1.7855	3.6100e-003	0.1249	0.0771	0.2020	0.0335	0.0722	0.1057	0.0000	291.1840	291.1840	0.0447	0.0000	292.1235
2020	4.8961	3.9992	5.1561	0.0107	0.3708	0.2028	0.5736	0.0995	0.1897	0.2892	0.0000	843.1658	843.1658	0.1314	0.0000	845.9243
Total	6.5597	5.4784	6.9416	0.0143	0.4957	0.2799	0.7756	0.1330	0.2619	0.3949	0.0000	1,134.3498	1,134.3498	0.1761	0.0000	1,138.0478

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					
2019	1.6636	1.4792	1.7855	3.6100e-003	0.1249	0.0148	0.1397	0.0335	0.0138	0.0473	0.0000	291.1838	291.1838	0.0447	0.0000	292.1233
2020	4.8961	3.9992	5.1561	0.0107	0.3708	0.0393	0.4101	0.0995	0.0366	0.1361	0.0000	843.1653	843.1653	0.1314	0.0000	845.9237
Total	6.5597	5.4784	6.9416	0.0143	0.4957	0.0541	0.5498	0.1330	0.0504	0.1834	0.0000	1,134.3491	1,134.3491	0.1761	0.0000	1,138.0471

	ROG	NOx	CO	SO2	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	80.68	29.12	0.00	80.75	53.55	0.00	0.00	0.00	0.00	0.00	0.00

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	4.0864	0.0427	3.5041	2.2200e-003		0.2135	0.2135		0.2135	0.2135	22.4122	46.6232	69.0355	0.0703	1.5200e-003	70.9826
Energy	0.0329	0.2808	0.1195	1.7900e-003		0.0227	0.0227		0.0227	0.0227	0.0000	731.8692	731.8692	0.0259	0.0100	735.5238
Mobile	0.8825	2.0275	9.8912	0.0360	2.5963	0.0359	2.6322	0.6939	0.0332	0.7270	0.0000	2,426.9989	2,426.9989	0.0832	0.0000	2,428.7462
Waste						0.0000	0.0000		0.0000	0.0000	50.1855	0.0000	50.1855	2.9659	0.0000	112.4688
Water						0.0000	0.0000		0.0000	0.0000	4.3615	74.8357	79.1972	0.4516	0.0113	92.1917
Total	5.0018	2.3510	13.5149	0.0400	2.5963	0.2721	2.8684	0.6939	0.2693	0.9632	76.9591	3,280.3271	3,357.2862	3.5969	0.0229	3,439.9132

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	4.0864	0.0427	3.5041	2.2200e-003		0.2135	0.2135		0.2135	0.2135	22.4122	46.6232	69.0355	0.0703	1.5200e-003	70.9826
Energy	0.0329	0.2808	0.1195	1.7900e-003		0.0227	0.0227		0.0227	0.0227	0.0000	731.8692	731.8692	0.0259	0.0100	735.5238
Mobile	0.8825	2.0275	9.8912	0.0360	2.5963	0.0359	2.6322	0.6939	0.0332	0.7270	0.0000	2,426.9989	2,426.9989	0.0832	0.0000	2,428.7462
Waste						0.0000	0.0000		0.0000	0.0000	50.1855	0.0000	50.1855	2.9659	0.0000	112.4688
Water						0.0000	0.0000		0.0000	0.0000	4.3615	74.8357	79.1972	0.4515	0.0113	92.1847
Total	5.0018	2.3510	13.5149	0.0400	2.5963	0.2721	2.8684	0.6939	0.2693	0.9632	76.9591	3,280.3271	3,357.2862	3.5968	0.0229	3,439.9062

	ROG	NOx	CO	SO2	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	0.09	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	Building Construction	Building Construction	10/1/2019	9/30/2020	5	262	
2	Paving	Paving	10/1/2019	9/30/2020	5	262	
3	Architectural Coating	Architectural Coating	10/1/2019	9/30/2020	5	262	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 769,095; Residential Outdoor: 256,365; Non-Residential Indoor: 568,458; Non-Residential Outdoor: 189,486 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	235.00	85.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	47.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0776	0.6919	0.5650	8.8000e-004		0.0424	0.0424		0.0399	0.0399	0.0000	77.2605	77.2605	0.0188	0.0000	77.6553
Total	0.0776	0.6919	0.5650	8.8000e-004		0.0424	0.0424		0.0399	0.0399	0.0000	77.2605	77.2605	0.0188	0.0000	77.6553

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0211	0.1959	0.2850	6.0000e-004	0.0173	3.0300e-003	0.0203	4.9300e-003	2.7900e-003	7.7200e-003	0.0000	52.4344	52.4344	3.9000e-004	0.0000	52.4424
Worker	0.0205	0.0301	0.3171	1.0200e-003	0.0851	5.9000e-004	0.0857	0.0226	5.5000e-004	0.0232	0.0000	68.7855	68.7855	3.1000e-003	0.0000	68.8507
Total	0.0415	0.2260	0.6021	1.6200e-003	0.1024	3.6200e-003	0.1060	0.0275	3.3400e-003	0.0309	0.0000	121.2198	121.2198	3.4900e-003	0.0000	121.2931

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0776	0.6919	0.5650	8.8000e-004		6.3600e-003	6.3600e-003		5.9800e-003	5.9800e-003	0.0000	77.2604	77.2604	0.0188	0.0000	77.6552
Total	0.0776	0.6919	0.5650	8.8000e-004		6.3600e-003	6.3600e-003		5.9800e-003	5.9800e-003	0.0000	77.2604	77.2604	0.0188	0.0000	77.6552

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0211	0.1959	0.2850	6.0000e-004	0.0173	3.0300e-003	0.0203	4.9300e-003	2.7900e-003	7.7200e-003	0.0000	52.4344	52.4344	3.9000e-004	0.0000	52.4424
Worker	0.0205	0.0301	0.3171	1.0200e-003	0.0851	5.9000e-004	0.0857	0.0226	5.5000e-004	0.0232	0.0000	68.7855	68.7855	3.1000e-003	0.0000	68.8507
Total	0.0415	0.2260	0.6021	1.6200e-003	0.1024	3.6200e-003	0.1060	0.0275	3.3400e-003	0.0309	0.0000	121.2198	121.2198	3.4900e-003	0.0000	121.2931

3.2 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Off-Road	0.2069	1.8702	1.6472	2.6300e-003		0.1091	0.1091		0.1026	0.1026	0.0000	226.0369	226.0369	0.0551	0.0000
Total	0.2069	1.8702	1.6472	2.6300e-003		0.1091	0.1091		0.1026	0.1026	0.0000	226.0369	226.0369	0.0551	0.0000	227.1934

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0576	0.5074	0.8068	1.7900e-003	0.0513	8.2200e-003	0.0595	0.0146	7.5600e-003	0.0222	0.0000	152.1797	152.1797	1.1200e-003	0.0000	152.2032
Worker	0.0575	0.0836	0.8831	3.0200e-003	0.2528	1.7600e-003	0.2546	0.0671	1.6300e-003	0.0688	0.0000	196.0922	196.0922	8.7800e-003	0.0000	196.2766
Total	0.1152	0.5910	1.6899	4.8100e-003	0.3041	9.9800e-003	0.3141	0.0818	9.1900e-003	0.0910	0.0000	348.2719	348.2719	9.9000e-003	0.0000	348.4798

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2069	1.8702	1.6472	2.6300e-003		0.0164	0.0164		0.0154	0.0154	0.0000	226.0366	226.0366	0.0551	0.0000	227.1931
Total	0.2069	1.8702	1.6472	2.6300e-003		0.0164	0.0164		0.0154	0.0154	0.0000	226.0366	226.0366	0.0551	0.0000	227.1931

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0576	0.5074	0.8068	1.7900e-003	0.0513	8.2200e-003	0.0595	0.0146	7.5600e-003	0.0222	0.0000	152.1797	152.1797	1.1200e-003	0.0000	152.2032
Worker	0.0575	0.0836	0.8831	3.0200e-003	0.2528	1.7600e-003	0.2546	0.0671	1.6300e-003	0.0688	0.0000	196.0922	196.0922	8.7800e-003	0.0000	196.2766
Total	0.1152	0.5910	1.6899	4.8100e-003	0.3041	9.9800e-003	0.3141	0.0818	9.1900e-003	0.0910	0.0000	348.2719	348.2719	9.9000e-003	0.0000	348.4798

3.3 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0471	0.4929	0.4741	7.4000e-004		0.0267	0.0267		0.0246	0.0246	0.0000	66.1302	66.1302	0.0209	0.0000	66.5696
Paving	2.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0499	0.4929	0.4741	7.4000e-004		0.0267	0.0267		0.0246	0.0246	0.0000	66.1302	66.1302	0.0209	0.0000	66.5696

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3100e-003	1.9200e-003	0.0202	6.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.3906	4.3906	2.0000e-004	0.0000	4.3947
Total	1.3100e-003	1.9200e-003	0.0202	6.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.3906	4.3906	2.0000e-004	0.0000	4.3947

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0471	0.4929	0.4741	7.4000e-004		4.0100e-003	4.0100e-003		3.6900e-003	3.6900e-003	0.0000	66.1302	66.1302	0.0209	0.0000	66.5695
Paving	2.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0499	0.4929	0.4741	7.4000e-004		4.0100e-003	4.0100e-003		3.6900e-003	3.6900e-003	0.0000	66.1302	66.1302	0.0209	0.0000	66.5695

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3100e-003	1.9200e-003	0.0202	6.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.3906	4.3906	2.0000e-004	0.0000	4.3947
Total	1.3100e-003	1.9200e-003	0.0202	6.0000e-005	5.4300e-003	4.0000e-005	5.4700e-003	1.4400e-003	3.0000e-005	1.4800e-003	0.0000	4.3906	4.3906	2.0000e-004	0.0000	4.3947

3.3 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1304	1.3509	1.4065	2.1900e-003		0.0724	0.0724		0.0666	0.0666	0.0000	192.1002	192.1002	0.0621	0.0000	193.4049
Paving	8.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1389	1.3509	1.4065	2.1900e-003		0.0724	0.0724		0.0666	0.0666	0.0000	192.1002	192.1002	0.0621	0.0000	193.4049

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6700e-003	5.3400e-003	0.0564	1.9000e-004	0.0161	1.1000e-004	0.0163	4.2900e-003	1.0000e-004	4.3900e-003	0.0000	12.5165	12.5165	5.6000e-004	0.0000	12.5283
Total	3.6700e-003	5.3400e-003	0.0564	1.9000e-004	0.0161	1.1000e-004	0.0163	4.2900e-003	1.0000e-004	4.3900e-003	0.0000	12.5165	12.5165	5.6000e-004	0.0000	12.5283

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1304	1.3509	1.4065	2.1900e-003		0.0109	0.0109		9.9900e-003	9.9900e-003	0.0000	192.1000	192.1000	0.0621	0.0000	193.4047
Paving	8.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1389	1.3509	1.4065	2.1900e-003		0.0109	0.0109		9.9900e-003	9.9900e-003	0.0000	192.1000	192.1000	0.0621	0.0000	193.4047

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6700e-003	5.3400e-003	0.0564	1.9000e-004	0.0161	1.1000e-004	0.0163	4.2900e-003	1.0000e-004	4.3900e-003	0.0000	12.5165	12.5165	5.6000e-004	0.0000	12.5283
Total	3.6700e-003	5.3400e-003	0.0564	1.9000e-004	0.0161	1.1000e-004	0.0163	4.2900e-003	1.0000e-004	4.3900e-003	0.0000	12.5165	12.5165	5.6000e-004	0.0000	12.5283

3.4 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4804					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7900e-003	0.0606	0.0608	1.0000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003	0.0000	8.4257	8.4257	7.1000e-004	0.0000	8.4407
Total	1.4892	0.0606	0.0608	1.0000e-004		4.2500e-003	4.2500e-003		4.2500e-003	4.2500e-003	0.0000	8.4257	8.4257	7.1000e-004	0.0000	8.4407

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-003	6.0300e-003	0.0634	2.0000e-004	0.0170	1.2000e-004	0.0171	4.5200e-003	1.1000e-004	4.6300e-003	0.0000	13.7571	13.7571	6.2000e-004	0.0000	13.7701
Total	4.1000e-003	6.0300e-003	0.0634	2.0000e-004	0.0170	1.2000e-004	0.0171	4.5200e-003	1.1000e-004	4.6300e-003	0.0000	13.7571	13.7571	6.2000e-004	0.0000	13.7701

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4804					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7900e-003	0.0606	0.0608	1.0000e-004		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	8.4257	8.4257	7.1000e-004	0.0000	8.4407

Total	1.4892	0.0606	0.0608	1.0000e-004		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	8.4257	8.4257	7.1000e-004	0.0000	8.4407
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-003	6.0300e-003	0.0634	2.0000e-004	0.0170	1.2000e-004	0.0171	4.5200e-003	1.1000e-004	4.6300e-003	0.0000	13.7571	13.7571	6.2000e-004	0.0000	13.7701
Total	4.1000e-003	6.0300e-003	0.0634	2.0000e-004	0.0170	1.2000e-004	0.0171	4.5200e-003	1.1000e-004	4.6300e-003	0.0000	13.7571	13.7571	6.2000e-004	0.0000	13.7701

3.4 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.3963					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1650	0.1795	2.9000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	25.0219	25.0219	1.9400e-003	0.0000	25.0626
Total	4.4200	0.1650	0.1795	2.9000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	25.0219	25.0219	1.9400e-003	0.0000	25.0626

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0115	0.0167	0.1766	6.0000e-004	0.0506	3.5000e-004	0.0509	0.0134	3.3000e-004	0.0138	0.0000	39.2184	39.2184	1.7600e-003	0.0000	39.2553
Total	0.0115	0.0167	0.1766	6.0000e-004	0.0506	3.5000e-004	0.0509	0.0134	3.3000e-004	0.0138	0.0000	39.2184	39.2184	1.7600e-003	0.0000	39.2553

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.3963					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1650	0.1795	2.9000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	25.0219	25.0219	1.9400e-003	0.0000	25.0625
Total	4.4200	0.1650	0.1795	2.9000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	25.0219	25.0219	1.9400e-003	0.0000	25.0625

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0115	0.0167	0.1766	6.0000e-004	0.0506	3.5000e-004	0.0509	0.0134	3.3000e-004	0.0138	0.0000	39.2184	39.2184	1.7600e-003	0.0000	39.2553
Total	0.0115	0.0167	0.1766	6.0000e-004	0.0506	3.5000e-004	0.0509	0.0134	3.3000e-004	0.0138	0.0000	39.2184	39.2184	1.7600e-003	0.0000	39.2553

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8825	2.0275	9.8912	0.0360	2.5963	0.0359	2.6322	0.6939	0.0332	0.7270	0.0000	2,426.9989	2,426.9989	0.0832	0.0000	2,428.7462
Unmitigated	0.8825	2.0275	9.8912	0.0360	2.5963	0.0359	2.6322	0.6939	0.0332	0.7270	0.0000	2,426.9989	2,426.9989	0.0832	0.0000	2,428.7462

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	2,019.27	2,126.88	1,850.47	6,870,282	6,870,282
Total	2,019.27	2,126.88	1,850.47	6,870,282	6,870,282

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
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LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.505043	0.056653	0.194832	0.151784	0.042126	0.005989	0.016072	0.016505	0.001461	0.002178	0.004464	0.000494	0.002401

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	406.6479	406.6479	0.0197	4.0700e-003	408.3232
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	406.6479	406.6479	0.0197	4.0700e-003	408.3232
NaturalGas Mitigated	0.0329	0.2808	0.1195	1.7900e-003		0.0227	0.0227		0.0227	0.0227	0.0000	325.2214	325.2214	6.2300e-003	5.9600e-003	327.2006
NaturalGas Unmitigated	0.0329	0.2808	0.1195	1.7900e-003		0.0227	0.0227		0.0227	0.0227	0.0000	325.2214	325.2214	6.2300e-003	5.9600e-003	327.2006

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					

Single Family Housing	6.09442e+006	0.0329	0.2808	0.1195	1.7900e-003		0.0227	0.0227		0.0227	0.0227	0.0000	325.2214	325.2214	6.2300e-003	5.9600e-003	327.2006
Other Asphalt Surfaces	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		0.0329	0.2808	0.1195	1.7900e-003		0.0227	0.0227		0.0227	0.0227	0.0000	325.2214	325.2214	6.2300e-003	5.9600e-003	327.2006

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					
Other Asphalt Surfaces	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
Single Family Housing	6.09442e+006	0.0329	0.2808	0.1195	1.7900e-003		0.0227	0.0227		0.0227	0.0227	0.0000	325.2214	325.2214	6.2300e-003	5.9600e-003	327.2006
Total		0.0329	0.2808	0.1195	1.7900e-003		0.0227	0.0227		0.0227	0.0227	0.0000	325.2214	325.2214	6.2300e-003	5.9600e-003	327.2006

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.49592e+006	406.6479	0.0197	4.0700e-003	408.3232
Total		406.6479	0.0197	4.0700e-003	408.3232

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.49592e+006	406.6479	0.0197	4.0700e-003	408.3232
Total		406.6479	0.0197	4.0700e-003	408.3232

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	4.0864	0.0427	3.5041	2.2200e-003		0.2135	0.2135		0.2135	0.2135	22.4122	46.6232	69.0355	0.0703	1.5200e-003	70.9826
Unmitigated	4.0864	0.0427	3.5041	2.2200e-003		0.2135	0.2135		0.2135	0.2135	22.4122	46.6232	69.0355	0.0703	1.5200e-003	70.9826

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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SubCategory	tons/yr									MT/yr						
Architectural Coating	0.5877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	2.7418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.6911	0.0175	1.3257	2.1100e-003		0.2015	0.2015		0.2014	0.2014	22.4122	43.0686	65.4808	0.0668	1.5200e-003	67.3560
Landscaping	0.0658	0.0251	2.1784	1.1000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	3.5546	3.5546	3.4300e-003	0.0000	3.6267
Total	4.0864	0.0427	3.5041	2.2200e-003		0.2135	0.2135		0.2135	0.2135	22.4122	46.6232	69.0355	0.0703	1.5200e-003	70.9826

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr									MT/yr						
Architectural Coating	0.5877						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7418						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6911	0.0175	1.3257	2.1100e-003		0.2015	0.2015		0.2014	0.2014	22.4122	43.0686	65.4808	0.0668	1.5200e-003	67.3560
Landscaping	0.0658	0.0251	2.1784	1.1000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	3.5546	3.5546	3.4300e-003	0.0000	3.6267
Total	4.0864	0.0427	3.5041	2.2200e-003		0.2135	0.2135		0.2135	0.2135	22.4122	46.6232	69.0355	0.0703	1.5200e-003	70.9826

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e

Category	MT/yr			
Mitigated	79.1972	0.4515	0.0113	92.1847
Unmitigated	79.1972	0.4516	0.0113	92.1917

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	13.7475 / 8.6669	79.1972	0.4516	0.0113	92.1917
Total		79.1972	0.4516	0.0113	92.1917

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	13.7475 / 8.6669	79.1972	0.4515	0.0113	92.1847
Total		79.1972	0.4515	0.0113	92.1847

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	50.1855	2.9659	0.0000	112.4688
Unmitigated	50.1855	2.9659	0.0000	112.4688

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	247.23	50.1855	2.9659	0.0000	112.4688
Total		50.1855	2.9659	0.0000	112.4688

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	247.23	50.1855	2.9659	0.0000	112.4688
Total		50.1855	2.9659	0.0000	112.4688

9.0 Operational Offroad

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

WCH - MitConstruction - Grading - Phase 2a Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	204.00	Dwelling Unit	62.00	204,000.00	583
Single Family Housing	267.00	Dwelling Unit	100.00	480,600.00	764

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8	Operational Year	2025		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Land Use - Updated with client-provided data. Acreage adjusted to equal acreage for grading.
- Construction Phase - Updated based on client-provided construction schedule
- Off-road Equipment - Updated based on CalEEMod Calculation Detail Guidance (by grading acreage) and excavators are CalEEMod default.
- Grading - Total acres disturbed changed to acreage specified by client for grading.
- Construction Off-road Equipment Mitigation - Apply Level 3 DPF to all diesel equipment as in MM 4.4-1.
- Water exposed area 3 times per day as in MM 4.4-1 (61% reduction in PM is the CalEEMod default for this frequency).

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	310.00	261.00
tblGrading	AcresOfGrading	783.00	162.00
tblLandUse	LotAcreage	12.75	62.00
tblLandUse	LotAcreage	86.69	100.00
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Grading
tblProjectCharacteristics	OperationalYear	2014	2025

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										M1/yr					
2021	0.1836	1.9521	1.4093	2.4500e-003	1.6660	0.0876	1.7536	0.8755	0.0806	0.9560	0.0000	212.5992	212.5992	0.0670	0.0000	214.0058
2022	0.4928	5.0683	4.0053	7.2300e-003	1.6823	0.2276	1.9099	0.8798	0.2094	1.0892	0.0000	627.8840	627.8840	0.1979	0.0000	632.0396

Total	0.6764	7.0204	5.4145	9.6800e-003	3.3483	0.3152	3.6635	1.7552	0.2900	2.0452	0.0000	840.4833	840.4833	0.2649	0.0000	846.0454
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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					
2021	0.1836	1.9521	1.4093	2.4500e-003	0.6548	0.0132	0.6680	0.3428	0.0121	0.3549	0.0000	212.5990	212.5990	0.0670	0.0000	214.0056
2022	0.4928	5.0683	4.0052	7.2300e-003	0.6711	0.0343	0.7054	0.3471	0.0316	0.3787	0.0000	627.8833	627.8833	0.1979	0.0000	632.0389
Total	0.6764	7.0204	5.4145	9.6800e-003	1.3259	0.0475	1.3734	0.6899	0.0437	0.7336	0.0000	840.4823	840.4823	0.2649	0.0000	846.0445

	ROG	NOx	CO	SO2	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	60.40	84.94	62.51	60.70	84.94	64.13	0.00	0.00	0.00	0.00	0.00	0.00

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	4.4300	0.0950	7.8120	4.9600e-003		0.4767	0.4767		0.4766	0.4766	50.0292	104.0732	154.1023	0.1568	3.4000e-003	158.4477
Energy	0.0590	0.5041	0.2145	3.2200e-003		0.0408	0.0408		0.0408	0.0408	0.0000	1,377.9730	1,377.9730	0.0477	0.0183	1,384.6340
Mobile	1.5385	3.3234	16.9665	0.0698	5.0246	0.0721	5.0967	1.3429	0.0666	1.4095	0.0000	4,580.1861	4,580.1861	0.1459	0.0000	4,583.2502
Waste						0.0000	0.0000		0.0000	0.0000	82.6336	0.0000	82.6336	4.8835	0.0000	185.1871

Water						0.0000	0.0000		0.0000	0.0000	9.7357	175.8559	185.5916	1.0080	0.0253	214.5983
Total	6.0275	3.9225	24.9929	0.0780	5.0246	0.5895	5.6141	1.3429	0.5839	1.9269	142.3985	6,238.0882	6,380.4867	6.2419	0.0469	6,526.1173

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	4.4300	0.0950	7.8120	4.9600e-003		0.4767	0.4767		0.4766	0.4766	50.0292	104.0732	154.1023	0.1568	3.4000e-003	158.4477
Energy	0.0590	0.5041	0.2145	3.2200e-003		0.0408	0.0408		0.0408	0.0408	0.0000	1,377.9730	1,377.9730	0.0477	0.0183	1,384.6340
Mobile	1.5385	3.3234	16.9665	0.0698	5.0246	0.0721	5.0967	1.3429	0.0666	1.4095	0.0000	4,580.1861	4,580.1861	0.1459	0.0000	4,583.2502
Waste						0.0000	0.0000		0.0000	0.0000	82.6336	0.0000	82.6336	4.8835	0.0000	185.1871
Water						0.0000	0.0000		0.0000	0.0000	9.7357	175.8559	185.5916	1.0079	0.0253	214.5828
Total	6.0275	3.9225	24.9929	0.0780	5.0246	0.5895	5.6141	1.3429	0.5839	1.9269	142.3985	6,238.0882	6,380.4867	6.2418	0.0469	6,526.1018

	ROG	NOx	CO	SO2	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	0.06	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	Grading	Grading	10/1/2021	9/30/2022	5	261	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 162

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	2	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	1	8.00	361	0.48
Grading	Crawler Tractors	2	8.00	208	0.43

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2021

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										MT/yr					

Fugitive Dust					1.6577	0.0000	1.6577	0.8732	0.0000	0.8732	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1818	1.9495	1.3818	2.3500e-003		0.0875	0.0875		0.0805	0.0805	0.0000	206.2430	206.2430	0.0667	0.0000	207.6438
Total	0.1818	1.9495	1.3818	2.3500e-003	1.6577	0.0875	1.7452	0.8732	0.0805	0.9538	0.0000	206.2430	206.2430	0.0667	0.0000	207.6438

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-003	2.5900e-003	0.0275	1.0000e-004	8.3300e-003	6.0000e-005	8.3900e-003	2.2100e-003	5.0000e-005	2.2700e-003	0.0000	6.3562	6.3562	2.8000e-004	0.0000	6.3620
Total	1.8000e-003	2.5900e-003	0.0275	1.0000e-004	8.3300e-003	6.0000e-005	8.3900e-003	2.2100e-003	5.0000e-005	2.2700e-003	0.0000	6.3562	6.3562	2.8000e-004	0.0000	6.3620

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6465	0.0000	0.6465	0.3406	0.0000	0.3406	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1818	1.9495	1.3818	2.3500e-003		0.0131	0.0131		0.0121	0.0121	0.0000	206.2428	206.2428	0.0667	0.0000	207.6436
Total	0.1818	1.9495	1.3818	2.3500e-003	0.6465	0.0131	0.6596	0.3406	0.0121	0.3527	0.0000	206.2428	206.2428	0.0667	0.0000	207.6436

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-003	2.5900e-003	0.0275	1.0000e-004	8.3300e-003	6.0000e-005	8.3900e-003	2.2100e-003	5.0000e-005	2.2700e-003	0.0000	6.3562	6.3562	2.8000e-004	0.0000	6.3620
Total	1.8000e-003	2.5900e-003	0.0275	1.0000e-004	8.3300e-003	6.0000e-005	8.3900e-003	2.2100e-003	5.0000e-005	2.2700e-003	0.0000	6.3562	6.3562	2.8000e-004	0.0000	6.3620

3.2 Grading - 2022

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					1.6577	0.0000	1.6577	0.8732	0.0000	0.8732	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4877	5.0611	3.9285	6.9400e-003		0.2274	0.2274		0.2092	0.2092	0.0000	609.4103	609.4103	0.1971	0.0000	613.5493
Total	0.4877	5.0611	3.9285	6.9400e-003	1.6577	0.2274	1.8851	0.8732	0.2092	1.0825	0.0000	609.4103	609.4103	0.1971	0.0000	613.5493

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0700e-003	7.2100e-003	0.0768	2.9000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003	0.0000	18.4737	18.4737	7.9000e-004	0.0000	18.4903
Total	5.0700e-003	7.2100e-003	0.0768	2.9000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003	0.0000	18.4737	18.4737	7.9000e-004	0.0000	18.4903

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6465	0.0000	0.6465	0.3406	0.0000	0.3406	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4877	5.0611	3.9285	6.9400e-003		0.0341	0.0341		0.0314	0.0314	0.0000	609.4096	609.4096	0.1971	0.0000	613.5486
Total	0.4877	5.0611	3.9285	6.9400e-003	0.6465	0.0341	0.6806	0.3406	0.0314	0.3720	0.0000	609.4096	609.4096	0.1971	0.0000	613.5486

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0700e-003	7.2100e-003	0.0768	2.9000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003	0.0000	18.4737	18.4737	7.9000e-004	0.0000	18.4903
Total	5.0700e-003	7.2100e-003	0.0768	2.9000e-004	0.0246	1.7000e-004	0.0248	6.5400e-003	1.6000e-004	6.7000e-003	0.0000	18.4737	18.4737	7.9000e-004	0.0000	18.4903

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Unmitigated	1.5385	3.3234	16.9665	0.0698	5.0246	0.0721	5.0967	1.3429	0.0666	1.4095	0.0000	4,580.1861	4,580.1861	0.1459	0.0000	4,583.2502
Mitigated	1.5385	3.3234	16.9665	0.0698	5.0246	0.0721	5.0967	1.3429	0.0666	1.4095	0.0000	4,580.1861	4,580.1861	0.1459	0.0000	4,583.2502

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	1,344.36	1,460.64	1238.28	4,598,862	4,598,862
Single Family Housing	2,555.19	2,691.36	2341.59	8,693,674	8,693,674
Total	3,899.55	4,152.00	3,579.87	13,292,535	13,292,535

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.500282	0.057001	0.196753	0.152945	0.042333	0.006070	0.016337	0.017415	0.001474	0.002202	0.004129	0.000486	0.002572

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
NaturalGas Mitigated	0.0590	0.5041	0.2145	3.2200e-003		0.0408	0.0408		0.0408	0.0408	0.0000	583.8123	583.8123	0.0112	0.0107	587.3653
NaturalGas Unmitigated	0.0590	0.5041	0.2145	3.2200e-003		0.0408	0.0408		0.0408	0.0408	0.0000	583.8123	583.8123	0.0112	0.0107	587.3653
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	794.1607	794.1607	0.0365	7.5500e-003	797.2687
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	794.1607	794.1607	0.0365	7.5500e-003	797.2687

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					
Condo/Townhouse	3.22833e+006	0.0174	0.1488	0.0633	9.5000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	172.2762	172.2762	3.3000e-003	3.1600e-003	173.3247
Single Family Housing	7.71189e+006	0.0416	0.3554	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287	0.0000	411.5361	411.5361	7.8900e-003	7.5400e-003	414.0406
Total		0.0590	0.5041	0.2145	3.2200e-003		0.0408	0.0408		0.0408	0.0408	0.0000	583.8123	583.8123	0.0112	0.0107	587.3653

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					
Condo/Townhouse	3.22833e+006	0.0174	0.1488	0.0633	9.5000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	172.2762	172.2762	3.3000e-003	3.1600e-003	173.3247
Single Family Housing	7.71189e+006	0.0416	0.3554	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287	0.0000	411.5361	411.5361	7.8900e-003	7.5400e-003	414.0406
Total		0.0590	0.5041	0.2145	3.2200e-003		0.0408	0.0408		0.0408	0.0408	0.0000	583.8123	583.8123	0.0112	0.0107	587.3653

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	882225	252.4635	0.0116	2.4000e-003	253.4515
Single Family Housing	1.89294e+006	541.6973	0.0249	5.1500e-003	543.8172
Total		794.1607	0.0365	7.5500e-003	797.2687

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	882225	252.4635	0.0116	2.4000e-003	253.4515

Single Family Housing	1.89294e+006	541.6973	0.0249	5.1500e-003	543.8172
Total		794.1607	0.0365	7.5500e-003	797.2687

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					
Unmitigated	4.4300	0.0950	7.8120	4.9600e-003		0.4767	0.4767		0.4766	0.4766	50.0292	104.0732	154.1023	0.1568	3.4000e-003	158.4477
Mitigated	4.4300	0.0950	7.8120	4.9600e-003		0.4767	0.4767		0.4766	0.4766	50.0292	104.0732	154.1023	0.1568	3.4000e-003	158.4477

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	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4738					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5427	0.0391	2.9593	4.7100e-003		0.4497	0.4497		0.4497	0.4497	50.0292	96.1389	146.1681	0.1492	3.4000e-003	150.3539
Landscaping	0.1457	0.0559	4.8527	2.6000e-004		0.0269	0.0269		0.0269	0.0269	0.0000	7.9343	7.9343	7.6000e-003	0.0000	8.0938
Total	4.4300	0.0950	7.8120	4.9700e-003		0.4767	0.4767		0.4766	0.4766	50.0292	104.0732	154.1023	0.1568	3.4000e-003	158.4477

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4738					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5427	0.0391	2.9593	4.7100e-003		0.4497	0.4497		0.4497	0.4497	50.0292	96.1389	146.1681	0.1492	3.4000e-003	150.3539
Landscaping	0.1457	0.0559	4.8527	2.6000e-004		0.0269	0.0269		0.0269	0.0269	0.0000	7.9343	7.9343	7.6000e-003	0.0000	8.0938
Total	4.4300	0.0950	7.8120	4.9700e-003		0.4767	0.4767		0.4766	0.4766	50.0292	104.0732	154.1023	0.1568	3.4000e-003	158.4477

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	185.5916	1.0080	0.0253	214.5983
Mitigated	185.5916	1.0079	0.0253	214.5828

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	13.2914 / 8.37937	80.3836	0.4366	0.0110	92.9470
Single Family Housing	17.3961 / 10.9671	105.2080	0.5714	0.0143	121.6513
Total		185.5916	1.0080	0.0253	214.5983

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	13.2914 / 8.37937	80.3836	0.4365	0.0109	92.9403
Single Family Housing	17.3961 / 10.9671	105.2080	0.5713	0.0143	121.6425
Total		185.5916	1.0079	0.0252	214.5828

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e

	MT/yr			
Mitigated	82.6336	4.8835	0.0000	185.1871
Unmitigated	82.6336	4.8835	0.0000	185.1871

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	93.84	19.0487	1.1257	0.0000	42.6893
Single Family Housing	313.24	63.5849	3.7578	0.0000	142.4978
Total		82.6336	4.8835	0.0000	185.1871

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	93.84	19.0487	1.1257	0.0000	42.6893
Single Family Housing	313.24	63.5849	3.7578	0.0000	142.4978
Total		82.6336	4.8835	0.0000	185.1871

9.0 Operational Offroad

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

WCH - MitConstruction - Bldg Construction - Phase 2a + 2b Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	7.10	Acre	7.10	309,276.00	0
Condo/Townhouse	204.00	Dwelling Unit	12.75	204,000.00	583
Single Family Housing	267.00	Dwelling Unit	86.69	480,600.00	764

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8	Operational Year	2030		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	599.3	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS incorporated

Land Use - Updated based on client-provided data. Paved areas modelled as asphalt parking surface.

Construction Phase - Updated based on client-provided construction schedule.

Construction Off-road Equipment Mitigation - Apply Level 3 DPF to all diesel equipment as in MM 4.4-1.

Water exposed area 3 times per day as in MM 4.4-1 (61% reduction in PM is the CalEEMod default for this frequency).

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	220.00	782.00
tblConstructionPhase	NumDays	3,100.00	782.00
tblConstructionPhase	NumDays	220.00	782.00
tblConstructionPhase	PhaseEndDate	9/28/2028	9/30/2025
tblConstructionPhase	PhaseEndDate	9/28/2028	9/30/2025
tblConstructionPhase	PhaseStartDate	10/1/2025	10/1/2022
tblConstructionPhase	PhaseStartDate	10/1/2025	10/1/2022
tblProjectCharacteristics	CO2IntensityFactor	630.89	599.3
tblProjectCharacteristics	OperationalYear	2014	2030

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.6737	1.1077	1.8716	4.3700e-003	0.1854	0.0511	0.2365	0.0496	0.0477	0.0974	0.0000	330.8298	330.8298	0.0448	0.0000	331.7712
2023	2.6542	4.0024	7.3172	0.0175	0.7416	0.1811	0.9228	0.1986	0.1693	0.3679	0.0000	1,314.8306	1,314.8306	0.1777	0.0000	1,318.5629
2024	2.6466	3.8006	7.2449	0.0176	0.7474	0.1649	0.9122	0.2001	0.1540	0.3541	0.0000	1,318.0727	1,318.0727	0.1779	0.0000	1,321.8078
2025	1.9465	2.6288	5.3022	0.0131	0.5562	0.1087	0.6650	0.1489	0.1015	0.2504	0.0000	976.6044	976.6044	0.1316	0.0000	979.3680
Total	7.9210	11.5394	21.7360	0.0525	2.2306	0.5058	2.7364	0.5972	0.4726	1.0698	0.0000	3,940.3375	3,940.3375	0.5320	0.0000	3,951.5100

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					
2022	0.6737	1.1077	1.8716	4.3700e-003	0.1854	0.0111	0.1965	0.0496	0.0104	0.0600	0.0000	330.8296	330.8296	0.0448	0.0000	331.7711
2023	2.6542	4.0024	7.3172	0.0175	0.7416	0.0409	0.7826	0.1986	0.0381	0.2367	0.0000	1,314.8299	1,314.8299	0.1777	0.0000	1,318.5622
2024	2.6466	3.8006	7.2449	0.0176	0.7474	0.0389	0.7862	0.2001	0.0361	0.2362	0.0000	1,318.0720	1,318.0720	0.1779	0.0000	1,321.8071
2025	1.9465	2.6288	5.3022	0.0131	0.5562	0.0269	0.5831	0.1489	0.0250	0.1739	0.0000	976.6039	976.6039	0.1316	0.0000	979.3675
Total	7.9210	11.5394	21.7359	0.0525	2.2306	0.1178	2.3484	0.5972	0.1096	0.7068	0.0000	3,940.3354	3,940.3354	0.5320	0.0000	3,951.5079

	ROG	NOx	CO	SO2	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	76.71	14.18	0.00	76.81	33.93	0.00	0.00	0.00	0.00	0.00	0.00

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	5.9051	0.0950	7.8038	4.9600e-003		0.4767	0.4767		0.4766	0.4766	50.0292	104.0733	154.1025	0.1568	3.4000e-003	158.4470
Energy	0.0590	0.5041	0.2145	3.2200e-003		0.0408	0.0408		0.0408	0.0408	0.0000	1,338.2077	1,338.2077	0.0477	0.0183	1,344.8687
Mobile	1.3777	2.9818	15.1779	0.0704	5.0270	0.0744	5.1013	1.3438	0.0687	1.4125	0.0000	4,493.8605	4,493.8605	0.1321	0.0000	4,496.6350
Waste						0.0000	0.0000		0.0000	0.0000	82.6336	0.0000	82.6336	4.8835	0.0000	185.1871
Water						0.0000	0.0000		0.0000	0.0000	9.7357	167.0504	176.7862	1.0080	0.0253	205.7928
Total	7.3418	3.5809	23.1962	0.0786	5.0270	0.5918	5.6188	1.3438	0.5861	1.9299	142.3985	6,103.1920	6,245.5905	6.2281	0.0469	6,390.9307

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	5.9051	0.0950	7.8038	4.9600e-003		0.4767	0.4767		0.4766	0.4766	50.0292	104.0733	154.1025	0.1568	3.4000e-003	158.4470
Energy	0.0590	0.5041	0.2145	3.2200e-003		0.0408	0.0408		0.0408	0.0408	0.0000	1,338.2077	1,338.2077	0.0477	0.0183	1,344.8687
Mobile	1.3777	2.9818	15.1779	0.0704	5.0270	0.0744	5.1013	1.3438	0.0687	1.4125	0.0000	4,493.8605	4,493.8605	0.1321	0.0000	4,496.6350
Waste						0.0000	0.0000		0.0000	0.0000	82.6336	0.0000	82.6336	4.8835	0.0000	185.1871
Water						0.0000	0.0000		0.0000	0.0000	9.7357	167.0504	176.7862	1.0079	0.0253	205.7773
Total	7.3418	3.5809	23.1962	0.0786	5.0270	0.5918	5.6188	1.3438	0.5861	1.9299	142.3985	6,103.1920	6,245.5905	6.2279	0.0469	6,390.9151

	ROG	NOx	CO	SO2	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	0.06	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	Building Construction	Building Construction	10/1/2022	9/30/2025	5	782	
2	Paving	Paving	10/1/2022	9/30/2025	5	782	
3	Architectural Coating	Architectural Coating	10/1/2022	9/30/2025	5	782	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,386,315; Residential Outdoor: 462,105; Non-Residential Indoor: 463,914; Non-Residential Outdoor: 154,638

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	
Building Construction		9	373.00	101.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving		6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		1	75.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0552	0.5049	0.5307	8.7000e-004		0.0262	0.0262		0.0246	0.0246	0.0000	74.9987	74.9987	0.0179	0.0000	75.3754

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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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
Vendor	0.0215	0.1540	0.3027	7.1000e-004	0.0202	2.9100e-003	0.0231	5.7700e-003	2.6800e-003	8.4500e-003	0.0000	59.8670	59.8670	4.5000e-004	0.0000	59.8765
Worker	0.0274	0.0390	0.4150	1.5900e-003	0.1331	9.4000e-004	0.1340	0.0353	8.7000e-004	0.0362	0.0000	99.8653	99.8653	4.2600e-003	0.0000	99.9548

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0552	0.5049	0.5307	8.7000e-004		3.9300e-003	3.9300e-003		3.7000e-003	3.7000e-003	0.0000	74.9986	74.9986	0.0179	0.0000	75.3753

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0215	0.1540	0.3027	7.1000e-004	0.0202	2.9100e-003	0.0231	5.7700e-003	2.6800e-003	8.4500e-003	0.0000	59.8670	59.8670	4.5000e-004	0.0000	59.8765
Worker	0.0274	0.0390	0.4150	1.5900e-003	0.1331	9.4000e-004	0.1340	0.0353	8.7000e-004	0.0362	0.0000	99.8653	99.8653	4.2600e-003	0.0000	99.9548

3.2 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2036	1.8606	2.1072	3.4900e-003		0.0906	0.0906		0.0852	0.0852	0.0000	300.0980	300.0980	0.0713	0.0000	301.5949

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0794	0.4893	1.1634	2.8100e-003	0.0809	0.0115	0.0924	0.0231	0.0106	0.0337	0.0000	238.3226	238.3226	1.6400e-003	0.0000	238.3569
Worker	0.1046	0.1477	1.5743	6.3600e-003	0.5323	3.8000e-003	0.5361	0.1414	3.5300e-003	0.1449	0.0000	393.4690	393.4690	0.0165	0.0000	393.8144

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2036	1.8606	2.1072	3.4900e-003		0.0136	0.0136		0.0128	0.0128	0.0000	300.0976	300.0976	0.0713	0.0000	301.5946

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0794	0.4893	1.1634	2.8100e-003	0.0809	0.0115	0.0924	0.0231	0.0106	0.0337	0.0000	238.3226	238.3226	1.6400e-003	0.0000	238.3569
Worker	0.1046	0.1477	1.5743	6.3600e-003	0.5323	3.8000e-003	0.5361	0.1414	3.5300e-003	0.1449	0.0000	393.4690	393.4690	0.0165	0.0000	393.8144

3.2 Building Construction - 2024

Unmitigated Construction On-Site

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

Off-Road	0.1920	1.7524	2.1135	3.5200e-003		0.0800	0.0800		0.0752	0.0752	0.0000	302.4646	302.4646	0.0714	0.0000	303.9643
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0785	0.4888	1.1528	2.8300e-003	0.0815	0.0118	0.0933	0.0233	0.0109	0.0342	0.0000	240.1065	240.1065	1.6600e-003	0.0000	240.1413
Worker	0.1005	0.1413	1.5024	6.4000e-003	0.5364	3.8500e-003	0.5403	0.1425	3.5800e-003	0.1460	0.0000	390.9555	390.9555	0.0160	0.0000	391.2916

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1920	1.7524	2.1135	3.5200e-003		0.0120	0.0120		0.0113	0.0113	0.0000	302.4642	302.4642	0.0714	0.0000	303.9639

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0785	0.4888	1.1528	2.8300e-003	0.0815	0.0118	0.0933	0.0233	0.0109	0.0342	0.0000	240.1065	240.1065	1.6600e-003	0.0000	240.1413
Worker	0.1005	0.1413	1.5024	6.4000e-003	0.5364	3.8500e-003	0.5403	0.1425	3.5800e-003	0.1460	0.0000	390.9555	390.9555	0.0160	0.0000	391.2916

3.2 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1327	1.2099	1.5651	2.6200e-003		0.0512	0.0512		0.0482	0.0482	0.0000	225.1853	225.1853	0.0529	0.0000	226.2952

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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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
Vendor	0.0569	0.3611	0.8375	2.1000e-003	0.0607	8.8500e-003	0.0695	0.0173	8.1500e-003	0.0255	0.0000	178.7211	178.7211	1.2400e-003	0.0000	178.7471
Worker	0.0718	0.1006	1.0724	4.7600e-003	0.3992	2.9000e-003	0.4021	0.1060	2.6900e-003	0.1087	0.0000	287.4184	287.4184	0.0116	0.0000	287.6615

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1327	1.2099	1.5651	2.6200e-003		7.6800e-003	7.6800e-003		7.2200e-003	7.2200e-003	0.0000	225.1851	225.1851	0.0529	0.0000	226.2949

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0569	0.3611	0.8375	2.1000e-003	0.0607	8.8500e-003	0.0695	0.0173	8.1500e-003	0.0255	0.0000	178.7211	178.7211	1.2400e-003	0.0000	178.7471
Worker	0.0718	0.1006	1.0724	4.7600e-003	0.3992	2.9000e-003	0.4021	0.1060	2.6900e-003	0.1087	0.0000	287.4184	287.4184	0.0116	0.0000	287.6615

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0352	0.3546	0.4642	7.3000e-004		0.0181	0.0181		0.0167	0.0167	0.0000	63.7046	63.7046	0.0206	0.0000	64.1373
Paving	7.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-003	1.5700e-003	0.0167	6.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	4.0000e-005	1.4600e-003	0.0000	4.0160	4.0160	1.7000e-004	0.0000	4.0196

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0352	0.3546	0.4642	7.3000e-004		2.7200e-003	2.7200e-003		2.5000e-003	2.5000e-003	0.0000	63.7045	63.7045	0.0206	0.0000	64.1372
Paving	7.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-003	1.5700e-003	0.0167	6.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	4.0000e-005	1.4600e-003	0.0000	4.0160	4.0160	1.7000e-004	0.0000	4.0196

3.3 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1317	1.2998	1.8570	2.9000e-003		0.0651	0.0651		0.0599	0.0599	0.0000	254.8099	254.8099	0.0824	0.0000	256.5405

Paving	3.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2100e-003	5.9400e-003	0.0633	2.6000e-004	0.0214	1.5000e-004	0.0216	5.6800e-003	1.4000e-004	5.8300e-003	0.0000	15.8232	15.8232	6.6000e-004	0.0000	15.8370

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1317	1.2998	1.8570	2.9000e-003		9.7700e-003	9.7700e-003		8.9900e-003	8.9900e-003	0.0000	254.8096	254.8096	0.0824	0.0000	256.5402
Paving	3.0900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2100e-003	5.9400e-003	0.0633	2.6000e-004	0.0214	1.5000e-004	0.0216	5.6800e-003	1.4000e-004	5.8300e-003	0.0000	15.8232	15.8232	6.6000e-004	0.0000	15.8370

3.3 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1269	1.2242	1.8766	2.9200e-003		0.0603	0.0603		0.0555	0.0555	0.0000	256.7661	256.7661	0.0830	0.0000	258.5100
Paving	3.1200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0400e-003	5.6800e-003	0.0604	2.6000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8700e-003	0.0000	15.7221	15.7221	6.4000e-004	0.0000	15.7356

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1269	1.2242	1.8766	2.9200e-003		9.0400e-003	9.0400e-003		8.3200e-003	8.3200e-003	0.0000	256.7658	256.7658	0.0830	0.0000	258.5097
Paving	3.1200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0400e-003	5.6800e-003	0.0604	2.6000e-004	0.0216	1.5000e-004	0.0217	5.7300e-003	1.4000e-004	5.8700e-003	0.0000	15.7221	15.7221	6.4000e-004	0.0000	15.7356

3.3 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0875	0.8211	1.3921	2.1800e-003		0.0401	0.0401		0.0369	0.0369	0.0000	191.0351	191.0351	0.0618	0.0000	192.3326
Paving	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8900e-003	4.0500e-003	0.0431	1.9000e-004	0.0161	1.2000e-004	0.0162	4.2600e-003	1.1000e-004	4.3700e-003	0.0000	11.5584	11.5584	4.7000e-004	0.0000	11.5682

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0875	0.8211	1.3921	2.1800e-003		6.0100e-003	6.0100e-003		5.5300e-003	5.5300e-003	0.0000	191.0349	191.0349	0.0618	0.0000	192.3324
Paving	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8900e-003	4.0500e-003	0.0431	1.9000e-004	0.0161	1.2000e-004	0.0162	4.2600e-003	1.1000e-004	4.3700e-003	0.0000	11.5584	11.5584	4.7000e-004	0.0000	11.5682

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	6.6500e-003	0.0458	0.0589	1.0000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	8.2981	8.2981	5.4000e-004	0.0000	8.3094
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5100e-003	7.8400e-003	0.0835	3.2000e-004	0.0268	1.9000e-004	0.0270	7.1100e-003	1.8000e-004	7.2800e-003	0.0000	20.0802	20.0802	8.6000e-004	0.0000	20.0982

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0458	0.0589	1.0000e-004		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	8.2981	8.2981	5.4000e-004	0.0000	8.3094

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5100e-003	7.8400e-003	0.0835	3.2000e-004	0.0268	1.9000e-004	0.0270	7.1100e-003	1.8000e-004	7.2800e-003	0.0000	20.0802	20.0802	8.6000e-004	0.0000	20.0982

3.4 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0817					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2355	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2340

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0210	0.0297	0.3166	1.2800e-003	0.1070	7.6000e-004	0.1078	0.0284	7.1000e-004	0.0291	0.0000	79.1158	79.1158	3.3100e-003	0.0000	79.1852

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0817					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2354	3.9000e-004		1.3800e-003	1.3800e-003		1.3800e-003	1.3800e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2340

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0210	0.0297	0.3166	1.2800e-003	0.1070	7.6000e-004	0.1078	0.0284	7.1000e-004	0.0291	0.0000	79.1158	79.1158	3.3100e-003	0.0000	79.1852

3.4 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0977					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4872

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0202	0.0284	0.3021	1.2900e-003	0.1079	7.7000e-004	0.1086	0.0286	7.2000e-004	0.0294	0.0000	78.6104	78.6104	3.2200e-003	0.0000	78.6779

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0977					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4871

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0202	0.0284	0.3021	1.2900e-003	0.1079	7.7000e-004	0.1086	0.0286	7.2000e-004	0.0294	0.0000	78.6104	78.6104	3.2200e-003	0.0000	78.6779

3.4 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5613					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0167	0.1117	0.1764	2.9000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003	0.0000	24.8942	24.8942	1.3600e-003	0.0000	24.9227
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0144	0.0202	0.2156	9.6000e-004	0.0803	5.8000e-004	0.0809	0.0213	5.4000e-004	0.0219	0.0000	57.7919	57.7919	2.3300e-003	0.0000	57.8408

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5613					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0167	0.1117	0.1764	2.9000e-004		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	24.8942	24.8942	1.3600e-003	0.0000	24.9227

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0144	0.0202	0.2156	9.6000e-004	0.0803	5.8000e-004	0.0809	0.0213	5.4000e-004	0.0219	0.0000	57.7919	57.7919	2.3300e-003	0.0000	57.8408

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3777	2.9818	15.1779	0.0704	5.0270	0.0744	5.1013	1.3438	0.0687	1.4125	0.0000	4,493.8605	4,493.8605	0.1321	0.0000	4,496.6350

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	1,344.36	1,460.64	1238.28	4,598,862	4,598,862
Other Asphalt Surfaces	0.00	0.00	0.00		

Single Family Housing	2,555.19	2,691.36	2341.59	8,693,674	8,693,674
Total	3,899.55	4,152.00	3,579.87	13,292,535	13,292,535

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	754.3954	754.3954	0.0365	7.5500e-003	757.5034
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	754.3954	754.3954	0.0365	7.5500e-003	757.5034
Natural Gas Mitigated	0.0590	0.5041	0.2145	3.2200e-003		0.0408	0.0408		0.0408	0.0408	0.0000	583.8123	583.8123	0.0112	0.0107	587.3653

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					
Other Asphalt Surfaces	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
Single Family Housing	7.71189e+006	0.0416	0.3554	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287	0.0000	411.5361	411.5361	7.8900e-003	7.5400e-003	414.0406
Condo/Townhouse	3.22833e+006	0.0174	0.1488	0.0633	9.5000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	172.2762	172.2762	3.3000e-003	3.1600e-003	173.3247

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	7.71189e+006	0.0416	0.3554	0.1512	2.2700e-003		0.0287	0.0287		0.0287	0.0287	0.0000	411.5361	411.5361	7.8900e-003	7.5400e-003	414.0406
Condo/Townhouse	3.22833e+006	0.0174	0.1488	0.0633	9.5000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	172.2762	172.2762	3.3000e-003	3.1600e-003	173.3247
Other Asphalt Surfaces	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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	882225	239.8221	0.0116	2.4000e-003	240.8101
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.89294e+006	514.5734	0.0249	5.1500e-003	516.6933

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	882225	239.8221	0.0116	2.4000e-003	240.8101
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.89294e+006	514.5734	0.0249	5.1500e-003	516.6933

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	5.9051	0.0950	7.8038	4.9600e-003		0.4767	0.4767		0.4766	0.4766	50.0292	104.0733	154.1025	0.1568	3.4000e-003	158.4470

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	0.6261					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5914					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5427	0.0391	2.9593	4.7100e-003		0.4497	0.4497		0.4497	0.4497	50.0292	96.1389	146.1681	0.1492	3.4000e-003	150.3539
Landscaping	0.1449	0.0559	4.8445	2.6000e-004		0.0269	0.0269		0.0269	0.0269	0.0000	7.9344	7.9344	7.5600e-003	0.0000	8.0932

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6261					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5914					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Hearth	1.5427	0.0391	2.9593	4.7100e-003		0.4497	0.4497		0.4497	0.4497	50.0292	96.1389	146.1681	0.1492	3.4000e-003	150.3539
Landscaping	0.1449	0.0559	4.8445	2.6000e-004		0.0269	0.0269		0.0269	0.0269	0.0000	7.9344	7.9344	7.5600e-003	0.0000	8.0932

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	176.7862	1.0079	0.0253	205.7773

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	13.2914 / 8.37937	76.5698	0.4366	0.0110	89.1332
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	17.3961 / 10.9671	100.2164	0.5714	0.0143	116.6596

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	13.2914 / 8.37937	76.5698	0.4365	0.0109	89.1265
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	17.3961 / 10.9671	100.2164	0.5713	0.0143	116.6508

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	82.6336	4.8835	0.0000	185.1871

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	93.84	19.0487	1.1257	0.0000	42.6893
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	313.24	63.5849	3.7578	0.0000	142.4978

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	93.84	19.0487	1.1257	0.0000	42.6893
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	313.24	63.5849	3.7578	0.0000	142.4978

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

WCH - MitConstruction - Retail - 2016 Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	67.95	1000sqft	1.56	67,950.00	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/MWhr)	599.3	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - RPS Incorporated

Land Use - client provided information

Construction Phase - Updated to assume that all retail construction activity happens over a period of 1 year (2016) as a conservative assumption. Grading has already been accounted for in other CalEEMod runs.

Construction Off-road Equipment Mitigation - Apply Level 3 DPF to all diesel equipment as in MM 4.4-1.

Water exposed area 3 times per day as in MM 4.4-1 (61% reduction in PM is the CalEEMod default for this frequency).

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstructionPhase	NumDays	10.00	260.00
tblConstructionPhase	NumDays	200.00	260.00
tblConstructionPhase	NumDays	10.00	260.00
tblConstructionPhase	PhaseEndDate	9/28/2018	9/30/2017
tblConstructionPhase	PhaseEndDate	9/29/2017	9/30/2017
tblConstructionPhase	PhaseEndDate	9/28/2018	9/30/2017
tblConstructionPhase	PhaseStartDate	10/1/2017	10/1/2016
tblConstructionPhase	PhaseStartDate	10/1/2017	10/1/2016
tblProjectCharacteristics	CO2IntensityFactor	630.89	599.3
tblProjectCharacteristics	OperationalYear	2014	2020

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.3653	1.2128	0.9436	1.4900e-003	0.0161	0.0776	0.0937	4.3200e-003	0.0739	0.0783	0.0000	128.5458	128.5458	0.0269	0.0000	129.1097
2017	1.0476	3.3612	2.7603	4.4600e-003	0.0484	0.2095	0.2579	0.0130	0.1995	0.2125	0.0000	380.8813	380.8813	0.0781	0.0000	382.5211
Total	1.4129	4.5740	3.7040	5.9500e-003	0.0645	0.2871	0.3516	0.0173	0.2734	0.2907	0.0000	509.4271	509.4271	0.1049	0.0000	511.6308

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					
2016	0.3653	1.2128	0.9436	1.4900e-003	0.0161	0.0121	0.0283	4.3200e-003	0.0116	0.0159	0.0000	128.5456	128.5456	0.0269	0.0000	129.1096
2017	1.0476	3.3612	2.7603	4.4600e-003	0.0484	0.0328	0.0811	0.0130	0.0312	0.0442	0.0000	380.8810	380.8810	0.0781	0.0000	382.5207
Total	1.4129	4.5740	3.7040	5.9500e-003	0.0645	0.0449	0.1094	0.0173	0.0427	0.0600	0.0000	509.4266	509.4266	0.1049	0.0000	511.6303

	ROG	NOx	CO	SO2	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	84.35	68.88	0.00	84.37	79.35	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3244	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003
Energy	7.5000e-004	6.8300e-003	5.7400e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	243.8672	243.8672	0.0116	2.5000e-003	244.8865
Mobile	1.1257	2.0328	9.9319	0.0279	1.9823	0.0298	2.0120	0.5297	0.0275	0.5572	0.0000	1,928.6378	1,928.6378	0.0728	0.0000	1,930.1667
Waste						0.0000	0.0000		0.0000	0.0000	14.4834	0.0000	14.4834	0.8559	0.0000	32.4582
Water						0.0000	0.0000		0.0000	0.0000	1.5968	27.1323	28.7291	0.1653	4.1400e-003	33.4856
Total	1.4508	2.0396	9.9385	0.0279	1.9823	0.0303	2.0126	0.5297	0.0280	0.5577	16.0802	2,199.6390	2,215.7192	1.1057	6.6400e-003	2,240.9988

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3244	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003
Energy	7.5000e-004	6.8300e-003	5.7400e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	243.8672	243.8672	0.0116	2.5000e-003	244.8865
Mobile	1.1257	2.0328	9.9319	0.0279	1.9823	0.0298	2.0120	0.5297	0.0275	0.5572	0.0000	1,928.6378	1,928.6378	0.0728	0.0000	1,930.1667
Waste						0.0000	0.0000		0.0000	0.0000	14.4834	0.0000	14.4834	0.8559	0.0000	32.4582
Water						0.0000	0.0000		0.0000	0.0000	1.5968	27.1323	28.7291	0.1653	4.1400e-003	33.4830
Total	1.4508	2.0396	9.9385	0.0279	1.9823	0.0303	2.0126	0.5297	0.0280	0.5577	16.0802	2,199.6390	2,215.7192	1.1056	6.6400e-003	2,240.9963

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	10/1/2016	9/30/2017	5	260	
2	Paving	Paving	10/1/2016	9/30/2017	5	260	
3	Architectural Coating	Architectural Coating	10/1/2016	9/30/2017	5	260	

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: 101,925; Non-Residential Outdoor: 33,975 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	7	22.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use DPF for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1070	0.6677	0.4780	7.1000e-004		0.0444	0.0444		0.0428	0.0428	0.0000	60.3511	60.3511	0.0133	0.0000	60.6296
Total	0.1070	0.6677	0.4780	7.1000e-004		0.0444	0.0444		0.0428	0.0428	0.0000	60.3511	60.3511	0.0133	0.0000	60.6296

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	3.3400e-003	0.0323	0.0422	8.0000e-005	2.2000e-003	4.9000e-004	2.6900e-003	6.3000e-004	4.5000e-004	1.0800e-003	0.0000	7.0082	7.0082	5.0000e-005	0.0000	7.0093
Worker	2.4400e-003	3.6200e-003	0.0377	9.0000e-005	7.8500e-003	6.0000e-005	7.9100e-003	2.0800e-003	5.0000e-005	2.1400e-003	0.0000	7.0750	7.0750	3.5000e-004	0.0000	7.0823
Total	5.7800e-003	0.0359	0.0799	1.7000e-004	0.0101	5.5000e-004	0.0106	2.7100e-003	5.0000e-004	3.2200e-003	0.0000	14.0833	14.0833	4.0000e-004	0.0000	14.0916

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1070	0.6677	0.4780	7.1000e-004		6.6600e-003	6.6600e-003		6.4200e-003	6.4200e-003	0.0000	60.3510	60.3510	0.0133	0.0000	60.6296
Total	0.1070	0.6677	0.4780	7.1000e-004		6.6600e-003	6.6600e-003		6.4200e-003	6.4200e-003	0.0000	60.3510	60.3510	0.0133	0.0000	60.6296

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	3.3400e-003	0.0323	0.0422	8.0000e-005	2.2000e-003	4.9000e-004	2.6900e-003	6.3000e-004	4.5000e-004	1.0800e-003	0.0000	7.0082	7.0082	5.0000e-005	0.0000	7.0093
Worker	2.4400e-003	3.6200e-003	0.0377	9.0000e-005	7.8500e-003	6.0000e-005	7.9100e-003	2.0800e-003	5.0000e-005	2.1400e-003	0.0000	7.0750	7.0750	3.5000e-004	0.0000	7.0823
Total	5.7800e-003	0.0359	0.0799	1.7000e-004	0.0101	5.5000e-004	0.0106	2.7100e-003	5.0000e-004	3.2200e-003	0.0000	14.0833	14.0833	4.0000e-004	0.0000	14.0916

3.2 Building Construction - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2881	1.8631	1.3953	2.1400e-003		0.1195	0.1195		0.1153	0.1153	0.0000	179.9336	179.9336	0.0378	0.0000	180.7265
Total	0.2881	1.8631	1.3953	2.1400e-003		0.1195	0.1195		0.1153	0.1153	0.0000	179.9336	179.9336	0.0378	0.0000	180.7265

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	9.2200e-003	0.0880	0.1197	2.3000e-004	6.6000e-003	1.3200e-003	7.9200e-003	1.8800e-003	1.2100e-003	3.1000e-003	0.0000	20.6823	20.6823	1.5000e-004	0.0000	20.6854
Worker	6.6600e-003	9.8600e-003	0.1030	2.8000e-004	0.0236	1.6000e-004	0.0237	6.2500e-003	1.5000e-004	6.4000e-003	0.0000	20.4037	20.4037	9.6000e-004	0.0000	20.4239
Total	0.0159	0.0979	0.2227	5.1000e-004	0.0302	1.4800e-003	0.0316	8.1300e-003	1.3600e-003	9.5000e-003	0.0000	41.0860	41.0860	1.1100e-003	0.0000	41.1093

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2881	1.8631	1.3953	2.1400e-003		0.0179	0.0179		0.0173	0.0173	0.0000	179.9334	179.9334	0.0378	0.0000	180.7263
Total	0.2881	1.8631	1.3953	2.1400e-003		0.0179	0.0179		0.0173	0.0173	0.0000	179.9334	179.9334	0.0378	0.0000	180.7263

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	9.2200e-003	0.0880	0.1197	2.3000e-004	6.6000e-003	1.3200e-003	7.9200e-003	1.8800e-003	1.2100e-003	3.1000e-003	0.0000	20.6823	20.6823	1.5000e-004	0.0000	20.6854
Worker	6.6600e-003	9.8600e-003	0.1030	2.8000e-004	0.0236	1.6000e-004	0.0237	6.2500e-003	1.5000e-004	6.4000e-003	0.0000	20.4037	20.4037	9.6000e-004	0.0000	20.4239
Total	0.0159	0.0979	0.2227	5.1000e-004	0.0302	1.4800e-003	0.0316	8.1300e-003	1.3600e-003	9.5000e-003	0.0000	41.0860	41.0860	1.1100e-003	0.0000	41.1093

3.3 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0418	0.4293	0.2954	4.3000e-004		0.0262	0.0262		0.0242	0.0242	0.0000	40.3463	40.3463	0.0120	0.0000	40.5972
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Total	0.0418	0.4293	0.2954	4.3000e-004		0.0262	0.0262		0.0242	0.0242	0.0000	40.3463	40.3463	0.0120	0.0000	40.5972
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	2.1400e-003	0.0223	6.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	4.1807	4.1807	2.0000e-004	0.0000	4.1850
Total	1.4400e-003	2.1400e-003	0.0223	6.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	4.1807	4.1807	2.0000e-004	0.0000	4.1850

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0418	0.4292	0.2954	4.3000e-004		3.9400e-003	3.9400e-003		3.6300e-003	3.6300e-003	0.0000	40.3463	40.3463	0.0120	0.0000	40.5972
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0418	0.4292	0.2954	4.3000e-004		3.9400e-003	3.9400e-003		3.6300e-003	3.6300e-003	0.0000	40.3463	40.3463	0.0120	0.0000	40.5972

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	2.1400e-003	0.0223	6.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	4.1807	4.1807	2.0000e-004	0.0000	4.1850
Total	1.4400e-003	2.1400e-003	0.0223	6.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	4.1807	4.1807	2.0000e-004	0.0000	4.1850

3.3 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1156	1.1796	0.8805	1.3000e-003		0.0715	0.0715		0.0659	0.0659	0.0000	119.2010	119.2010	0.0358	0.0000	119.9537
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1156	1.1796	0.8805	1.3000e-003		0.0715	0.0715		0.0659	0.0659	0.0000	119.2010	119.2010	0.0358	0.0000	119.9537

Unmitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9300e-003	5.8300e-003	0.0609	1.7000e-004	0.0139	1.0000e-004	0.0140	3.7000e-003	9.0000e-005	3.7800e-003	0.0000	12.0567	12.0567	5.7000e-004	0.0000	12.0687
Total	3.9300e-003	5.8300e-003	0.0609	1.7000e-004	0.0139	1.0000e-004	0.0140	3.7000e-003	9.0000e-005	3.7800e-003	0.0000	12.0567	12.0567	5.7000e-004	0.0000	12.0687

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1156	1.1796	0.8805	1.3000e-003		0.0107	0.0107		9.8800e-003	9.8800e-003	0.0000	119.2009	119.2009	0.0358	0.0000	119.9536
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1156	1.1796	0.8805	1.3000e-003		0.0107	0.0107		9.8800e-003	9.8800e-003	0.0000	119.2009	119.2009	0.0358	0.0000	119.9536

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9300e-003	5.8300e-003	0.0609	1.7000e-004	0.0139	1.0000e-004	0.0140	3.7000e-003	9.0000e-005	3.7800e-003	0.0000	12.0567	12.0567	5.7000e-004	0.0000	12.0687
Total	3.9300e-003	5.8300e-003	0.0609	1.7000e-004	0.0139	1.0000e-004	0.0140	3.7000e-003	9.0000e-005	3.7800e-003	0.0000	12.0567	12.0567	5.7000e-004	0.0000	12.0687

3.4 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0771	0.0612	1.0000e-004		6.3900e-003	6.3900e-003		6.3900e-003	6.3900e-003	0.0000	8.2981	8.2981	9.8000e-004	0.0000	8.3186
Total	0.2088	0.0771	0.0612	1.0000e-004		6.3900e-003	6.3900e-003		6.3900e-003	6.3900e-003	0.0000	8.2981	8.2981	9.8000e-004	0.0000	8.3186

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	6.6000e-004	6.8600e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2864	1.2864	6.0000e-005	0.0000	1.2877
Total	4.4000e-004	6.6000e-004	6.8600e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2864	1.2864	6.0000e-005	0.0000	1.2877

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0771	0.0612	1.0000e-004		9.6000e-004	9.6000e-004		9.6000e-004	9.6000e-004	0.0000	8.2981	8.2981	9.8000e-004	0.0000	8.3186
Total	0.2088	0.0771	0.0612	1.0000e-004		9.6000e-004	9.6000e-004		9.6000e-004	9.6000e-004	0.0000	8.2981	8.2981	9.8000e-004	0.0000	8.3186

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	6.6000e-004	6.8600e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2864	1.2864	6.0000e-005	0.0000	1.2877
Total	4.4000e-004	6.6000e-004	6.8600e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2864	1.2864	6.0000e-005	0.0000	1.2877

3.4 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5905					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0324	0.2130	0.1821	2.9000e-004		0.0169	0.0169		0.0169	0.0169	0.0000	24.8942	24.8942	2.6300e-003	0.0000	24.9494

Total	0.6229	0.2130	0.1821	2.9000e-004		0.0169	0.0169		0.0169	0.0169	0.0000	24.8942	24.8942	2.6300e-003	0.0000	24.9494
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	1.7900e-003	0.0187	5.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1600e-003	0.0000	3.7098	3.7098	1.8000e-004	0.0000	3.7134
Total	1.2100e-003	1.7900e-003	0.0187	5.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1600e-003	0.0000	3.7098	3.7098	1.8000e-004	0.0000	3.7134

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5905					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0324	0.2130	0.1821	2.9000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003	0.0000	24.8942	24.8942	2.6300e-003	0.0000	24.9494
Total	0.6229	0.2130	0.1821	2.9000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003	0.0000	24.8942	24.8942	2.6300e-003	0.0000	24.9494

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	1.7900e-003	0.0187	5.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1600e-003	0.0000	3.7098	3.7098	1.8000e-004	0.0000	3.7134
Total	1.2100e-003	1.7900e-003	0.0187	5.0000e-005	4.2800e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1600e-003	0.0000	3.7098	3.7098	1.8000e-004	0.0000	3.7134

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1257	2.0328	9.9319	0.0279	1.9823	0.0298	2.0120	0.5297	0.0275	0.5572	0.0000	1,928.6378	1,928.6378	0.0728	0.0000	1,930.1667
Unmitigated	1.1257	2.0328	9.9319	0.0279	1.9823	0.0298	2.0120	0.5297	0.0275	0.5572	0.0000	1,928.6378	1,928.6378	0.0728	0.0000	1,930.1667

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	3,011.54	2,856.62	1388.22	5,246,422	5,246,422
Total	3,011.54	2,856.62	1,388.22	5,246,422	5,246,422

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508857	0.056420	0.193204	0.150829	0.041936	0.005921	0.015893	0.015805	0.001454	0.002159	0.004747	0.000498	0.002277

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	236.4337	236.4337	0.0114	2.3700e-003	237.4078
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	236.4337	236.4337	0.0114	2.3700e-003	237.4078
NaturalGas Mitigated	7.5000e-004	6.8300e-003	5.7400e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4335	7.4335	1.4000e-004	1.4000e-004	7.4787
NaturalGas Unmitigated	7.5000e-004	6.8300e-003	5.7400e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4335	7.4335	1.4000e-004	1.4000e-004	7.4787

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	139298	7.5000e-004	6.8300e-003	5.7400e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4335	7.4335	1.4000e-004	1.4000e-004	7.4787
Total		7.5000e-004	6.8300e-003	5.7400e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4335	7.4335	1.4000e-004	1.4000e-004	7.4787

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					
Strip Mall	139298	7.5000e-004	6.8300e-003	5.7400e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4335	7.4335	1.4000e-004	1.4000e-004	7.4787
Total		7.5000e-004	6.8300e-003	5.7400e-003	4.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	7.4335	7.4335	1.4000e-004	1.4000e-004	7.4787

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	869760	236.4337	0.0114	2.3700e-003	237.4078
Total		236.4337	0.0114	2.3700e-003	237.4078

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	869760	236.4337	0.0114	2.3700e-003	237.4078
Total		236.4337	0.0114	2.3700e-003	237.4078

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3244	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003
Unmitigated	0.3244	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0787					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003
Total	0.3244	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Consumer Products	0.2455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003
Architectural Coating	0.0787					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.3244	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	28.7291	0.1653	4.1400e-003	33.4830
Unmitigated	28.7291	0.1653	4.1400e-003	33.4856

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	5.03323 / 3.08488	28.7291	0.1653	4.1400e-003	33.4856
Total		28.7291	0.1653	4.1400e-003	33.4856

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	5.03323 / 3.08488	28.7291	0.1653	4.1400e-003	33.4830
Total		28.7291	0.1653	4.1400e-003	33.4830

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.4834	0.8559	0.0000	32.4582
Unmitigated	14.4834	0.8559	0.0000	32.4582

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	71.35	14.4834	0.8559	0.0000	32.4582
Total		14.4834	0.8559	0.0000	32.4582

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	71.35	14.4834	0.8559	0.0000	32.4582
Total		14.4834	0.8559	0.0000	32.4582

9.0 Operational Offroad

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

WCH Operational AQ Mitigated Residential Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	204.00	Dwelling Unit	12.75	204,000.00	583
Single Family Housing	553.00	Dwelling Unit	179.55	995,400.00	1582

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)	599.3	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2010 RPS

Land Use - Updated with new information from Client

Construction Phase - operational emissions only - construction emissions set to zero

Vehicle Trips - DEIR Chapter 03-06 trip rate adjusted

2009 Recirculated DEIR trip distribution between H-W, H-S, and H-O

Vehicle Emission Factors - CO2 emission factors for Advanced Clean Cars

Energy Use - Current Title 24 intensities

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior Value	250	50

tblAreaMitigation	UseLowVOCPaintNonresidentialInterior Value	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	50
tblConstructionPhase	NumDays	200.00	0.00
tblEnergyUse	T24E	197.21	151.26
tblEnergyUse	T24E	391.02	248.69
tblEnergyUse	T24NG	12,874.17	12,384.95
tblEnergyUse	T24NG	23,064.50	21,565.31
tblProjectCharacteristics	CO2IntensityFactor	630.89	599.3
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	LDA	240.65	230.37
tblVehicleEF	LDA	52.82	51.22
tblVehicleEF	LDT1	294.32	290.28
tblVehicleEF	LDT1	64.02	63.44
tblVehicleEF	LDT2	358.30	351.97
tblVehicleEF	LDT2	77.62	76.64
tblVehicleEF	MDV	481.07	475.17
tblVehicleEF	MDV	103.34	102.42
tblVehicleTrips	HS_TL	5.90	4.90
tblVehicleTrips	HS_TL	5.90	4.90
tblVehicleTrips	ST_TR	7.16	5.91
tblVehicleTrips	ST_TR	10.08	8.42
tblVehicleTrips	SU_TR	6.07	5.91
tblVehicleTrips	SU_TR	8.77	8.42
tblVehicleTrips	WD_TR	6.59	5.91
tblVehicleTrips	WD_TR	9.57	8.42

2.0 Emissions Summary

	ROG	NOx	CO	SO2	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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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	7.5211	0.1535	12.5889	7.9800e-003		0.7659	0.7659		0.7658	0.7658	80.4078	167.2683	247.6762	0.2522	5.4600e-003	254.6647
Energy	0.0985	0.8420	0.3583	5.3700e-003		0.0681	0.0681		0.0681	0.0681	0.0000	2,256.7088	2,256.7088	0.0807	0.0307	2,267.9230
Mobile	2.7650	6.8318	31.3812	0.1025	7.4309	0.1053	7.5362	1.9857	0.0972	2.0829	0.0000	6,942.1998	6,942.1998	0.2582	0.0000	6,947.6227
Waste						0.0000	0.0000		0.0000	0.0000	150.7127	0.0000	150.7127	8.9069	0.0000	337.7568
Water						0.0000	0.0000		0.0000	0.0000	15.6475	268.4865	284.1340	1.6201	0.0406	330.7541
Total	10.3846	7.8272	44.3284	0.1159	7.4309	0.9393	8.3702	1.9857	0.9311	2.9168	246.7680	9,634.6635	9,881.4314	11.1182	0.0768	10,138.7214

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	7.4273	0.1535	12.5889	7.9800e-003		0.7659	0.7659		0.7658	0.7658	80.4078	167.2683	247.6762	0.2522	5.4600e-003	254.6647
Energy	0.0985	0.8420	0.3583	5.3700e-003		0.0681	0.0681		0.0681	0.0681	0.0000	2,256.7088	2,256.7088	0.0807	0.0307	2,267.9230
Mobile	2.7650	6.8318	31.3812	0.1025	7.4309	0.1053	7.5362	1.9857	0.0972	2.0829	0.0000	6,942.1998	6,942.1998	0.2582	0.0000	6,947.6227
Waste						0.0000	0.0000		0.0000	0.0000	150.7127	0.0000	150.7127	8.9069	0.0000	337.7568

Water						0.0000	0.0000		0.0000	0.0000	12.5180	219.0245	231.5424	1.2961	0.0325	268.8360
Total	10.2908	7.8272	44.3284	0.1159	7.4309	0.9393	8.3702	1.9857	0.9311	2.9168	243.6385	9,585.2014	9,828.8399	10.7941	0.0687	10,076.8033

	ROG	NOx	CO	SO2	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	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.51	0.53	2.91	10.60	0.61

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	- 2,324.6160
Total	- 2,324.6160

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	12/31/2014	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7650	6.8318	31.3812	0.1025	7.4309	0.1053	7.5362	1.9857	0.0972	2.0829	0.0000	6,942.1998	6,942.1998	0.2582	0.0000	6,947.6227
Unmitigated	2.7650	6.8318	31.3812	0.1025	7.4309	0.1053	7.5362	1.9857	0.0972	2.0829	0.0000	6,942.1998	6,942.1998	0.2582	0.0000	6,947.6227

4.2 Trip Summary Information

Average Daily Trip Rate	Unmitigated	Mitigated
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Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	1,205.64	1,205.64	1205.64	4,045,074	4,045,074
Single Family Housing	4,656.26	4,656.26	4656.26	15,622,340	15,622,340
Total	5,861.90	5,861.90	5,861.90	19,667,415	19,667,415

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	4.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	4.90	8.70	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508857	0.056420	0.193204	0.150829	0.041936	0.005921	0.015893	0.015805	0.001454	0.002159	0.004747	0.000498	0.002277

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
NaturalGas Mitigated	0.0985	0.8420	0.3583	5.3700e-003		0.0681	0.0681		0.0681	0.0681	0.0000	975.0666	975.0666	0.0187	0.0179	981.0007
NaturalGas Unmitigated	0.0985	0.8420	0.3583	5.3700e-003		0.0681	0.0681		0.0681	0.0681	0.0000	975.0666	975.0666	0.0187	0.0179	981.0007
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,281.6423	1,281.6423	0.0620	0.0128	1,286.9224
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,281.6423	1,281.6423	0.0620	0.0128	1,286.9224

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					
Condo/Townhouse	3.12853e+006	0.0169	0.1442	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	166.9505	166.9505	3.2000e-003	3.0600e-003	167.9665
Single Family Housing	1.51435e+007	0.0817	0.6978	0.2969	4.4500e-003		0.0564	0.0564		0.0564	0.0564	0.0000	808.1161	808.1161	0.0155	0.0148	813.0341
Total		0.0985	0.8420	0.3583	5.3700e-003		0.0681	0.0681		0.0681	0.0681	0.0000	975.0666	975.0666	0.0187	0.0179	981.0007

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	3.12853e+006	0.0169	0.1442	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	166.9505	166.9505	3.2000e-003	3.0600e-003	167.9665
Single Family Housing	1.51435e+007	0.0817	0.6978	0.2969	4.4500e-003		0.0564	0.0564		0.0564	0.0564	0.0000	808.1161	808.1161	0.0155	0.0148	813.0341
Total		0.0985	0.8420	0.3583	5.3700e-003		0.0681	0.0681		0.0681	0.0681	0.0000	975.0666	975.0666	0.0187	0.0179	981.0007

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e

Land Use	kWh/yr	MT/yr			
Condo/Townhouse	872851	237.2739	0.0115	2.3800e-003	238.2514
Single Family Housing	3.84188e+006	1,044.3684	0.0505	0.0105	1,048.6710
Total		1,281.6423	0.0620	0.0128	1,286.9224

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	872851	237.2739	0.0115	2.3800e-003	238.2514
Single Family Housing	3.84188e+006	1,044.3684	0.0505	0.0105	1,048.6710
Total		1,281.6423	0.0620	0.0128	1,286.9224

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	7.4273	0.1535	12.5889	7.9800e-003		0.7659	0.7659		0.7658	0.7658	80.4078	167.2683	247.6762	0.2522	5.4600e-003	254.6647
Unmitigated	7.5211	0.1535	12.5889	7.9800e-003		0.7659	0.7659		0.7658	0.7658	80.4078	167.2683	247.6762	0.2522	5.4600e-003	254.6647

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	0.4691						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3340						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.4795	0.0629	4.7563	7.5700e-003		0.7228	0.7228		0.7227	0.7227	80.4078	154.5162	234.9241	0.2398	5.4600e-003	241.6515
Landscaping	0.2385	0.0906	7.8326	4.1000e-004		0.0431	0.0431		0.0431	0.0431	0.0000	12.7521	12.7521	0.0124	0.0000	13.0132
Total	7.5211	0.1535	12.5889	7.9800e-003		0.7659	0.7659		0.7658	0.7658	80.4078	167.2683	247.6762	0.2522	5.4600e-003	254.6647

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr									MT/yr						
Architectural Coating	0.3753						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3340						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Hearth	2.4795	0.0629	4.7563	7.5700e-003		0.7228	0.7228		0.7227	0.7227	80.4078	154.5162	234.9241	0.2398	5.4600e-003	241.6515
Landscaping	0.2385	0.0906	7.8326	4.1000e-004		0.0431	0.0431		0.0431	0.0431	0.0000	12.7521	12.7521	0.0124	0.0000	13.0132
Total	7.4273	0.1535	12.5889	7.9800e-003		0.7659	0.7659		0.7658	0.7658	80.4078	167.2683	247.6762	0.2522	5.4600e-003	254.6647

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Use Water Efficient Landscaping

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	284.1340	1.6201	0.0406	330.7541
Mitigated	231.5424	1.2961	0.0325	268.8360

7.2 Water by Land Use

Unmitigated

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

Condo/Townhouse	13.2914 / 8.37937	76.5698	0.4366	0.0110	89.1332
Single Family Housing	36.0302 / 22.7147	207.5642	1.1835	0.0297	241.6209
Total		284.1340	1.6201	0.0406	330.7541

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	10.6331 / 7.08141	62.3972	0.3493	8.7600e-003	72.4472
Single Family Housing	28.8241 / 19.1962	169.1453	0.9468	0.0237	196.3888
Total		231.5424	1.2961	0.0325	268.8360

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	150.7127	8.9069	0.0000	337.7568
Unmitigated	150.7127	8.9069	0.0000	337.7568

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	93.84	19.0487	1.1257	0.0000	42.6893
Single Family Housing	648.62	131.6640	7.7811	0.0000	295.0675
Total		150.7127	8.9069	0.0000	337.7568

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	93.84	19.0487	1.1257	0.0000	42.6893
Single Family Housing	648.62	131.6640	7.7811	0.0000	295.0675
Total		150.7127	8.9069	0.0000	337.7568

9.0 Operational Offroad

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

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-	0.0000	0.0000	-
	2,324.6160			2,324.6160

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	20.9 / 0	-90.0790	0.0000	0.0000	-90.0790
Grassland	63.7 / 0	-274.5470	0.0000	0.0000	-274.5470
Others	18.9 / 0	0.0000	0.0000	0.0000	0.0000
Scrub	123.8 / 0	-	0.0000	0.0000	-
		1,770.3400			1,770.3400
Scrub	2.7 / 0	-38.6100	0.0000	0.0000	-38.6100
Scrub	2.8 / 0	-40.0400	0.0000	0.0000	-40.0400
Scrub	42.8 / 42.8	0.0000	0.0000	0.0000	0.0000
Trees	0.3 / 0	-33.3000	0.0000	0.0000	-33.3000
Trees	0.7 / 0	-77.7000	0.0000	0.0000	-77.7000
Total		-	0.0000	0.0000	-
		2,324.6160			2,324.6160

WCH Operational AQ Mitigated Retail Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	67.95	1000sqft	1.56	67,950.00	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/MWhr)	599.3	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2010 RPS

Land Use - Information from Client

Construction Phase - Operational Run Only

Vehicle Trips - Average trips adjusted to match DEIR

Vehicle Emission Factors - Advanced Clean Cars

Energy Use - Title 24 Improvements

Area Mitigation - VOC content of all coatings limited to 50 g/L.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	50

tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	T24E	3.58	2.80
tblEnergyUse	T24NG	1.00	0.83
tblProjectCharacteristics	CO2IntensityFactor	630.89	599.3
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	LDA	240.65	230.37
tblVehicleEF	LDA	52.82	51.22
tblVehicleEF	LDT1	294.32	290.28
tblVehicleEF	LDT1	64.02	63.44
tblVehicleEF	LDT2	358.30	351.97
tblVehicleEF	LDT2	77.62	76.64
tblVehicleEF	MDV	481.07	475.17
tblVehicleEF	MDV	103.34	102.42
tblVehicleTrips	ST_TR	42.04	28.34
tblVehicleTrips	SU_TR	20.43	28.34
tblVehicleTrips	WD_TR	44.32	28.34

2.0 Emissions Summary

	ROG	NOx	CO	SO2	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

2.2 Overall Operational Unmitigated Operational

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

Area	0.3244	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003
Energy	6.9000e-004	6.2600e-003	5.2600e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	228.8431	228.8431	0.0109	2.3500e-003	229.7993
Mobile	0.7861	1.4196	6.9360	0.0195	1.3843	0.0208	1.4051	0.3699	0.0192	0.3891	0.0000	1,318.3221	1,318.3221	0.0508	0.0000	1,319.3898
Waste						0.0000	0.0000		0.0000	0.0000	14.4834	0.0000	14.4834	0.8559	0.0000	32.4582
Water						0.0000	0.0000		0.0000	0.0000	1.5968	27.1323	28.7291	0.1653	4.1400e-003	33.4856
Total	1.1112	1.4259	6.9421	0.0195	1.3843	0.0213	1.4056	0.3699	0.0197	0.3896	16.0802	1,574.2992	1,590.3794	1.0830	6.4900e-003	1,615.1347

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2614	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003
Energy	6.9000e-004	6.2600e-003	5.2600e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	228.8431	228.8431	0.0109	2.3500e-003	229.7993
Mobile	0.7861	1.4196	6.9360	0.0195	1.3843	0.0208	1.4051	0.3699	0.0192	0.3891	0.0000	1,318.3221	1,318.3221	0.0508	0.0000	1,319.3898
Waste						0.0000	0.0000		0.0000	0.0000	14.4834	0.0000	14.4834	0.8559	0.0000	32.4582
Water						0.0000	0.0000		0.0000	0.0000	1.2775	22.1261	23.4035	0.1323	3.3100e-003	27.2083
Total	1.0482	1.4259	6.9421	0.0195	1.3843	0.0213	1.4056	0.3699	0.0197	0.3896	15.7609	1,569.2929	1,585.0538	1.0499	5.6600e-003	1,608.8575

	ROG	NOx	CO	SO2	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	5.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.99	0.32	0.33	3.05	12.79	0.39

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2015	12/31/2014	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7861	1.4196	6.9360	0.0195	1.3843	0.0208	1.4051	0.3699	0.0192	0.3891	0.0000	1,318.3221	1,318.3221	0.0508	0.0000	1,319.3898
Unmitigated	0.7861	1.4196	6.9360	0.0195	1.3843	0.0208	1.4051	0.3699	0.0192	0.3891	0.0000	1,318.3221	1,318.3221	0.0508	0.0000	1,319.3898

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	1,925.70	1,925.70	1925.70	3,663,833	3,663,833
Total	1,925.70	1,925.70	1,925.70	3,663,833	3,663,833

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.508857	0.056420	0.193204	0.150829	0.041936	0.005921	0.015893	0.015805	0.001454	0.002159	0.004747	0.000498	0.002277

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr								MT/yr							
NaturalGas Mitigated	6.9000e-004	6.2600e-003	5.2600e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8170	6.8170	1.3000e-004	1.2000e-004	6.8585
NaturalGas Unmitigated	6.9000e-004	6.2600e-003	5.2600e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8170	6.8170	1.3000e-004	1.2000e-004	6.8585
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	222.0261	222.0261	0.0107	2.2200e-003	222.9408
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	222.0261	222.0261	0.0107	2.2200e-003	222.9408

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							
Strip Mall	127746	6.9000e-004	6.2600e-003	5.2600e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8170	6.8170	1.3000e-004	1.2000e-004	6.8585
Total		6.9000e-004	6.2600e-003	5.2600e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8170	6.8170	1.3000e-004	1.2000e-004	6.8585

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr								MT/yr							
Strip Mall	127746	6.9000e-004	6.2600e-003	5.2600e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8170	6.8170	1.3000e-004	1.2000e-004	6.8585
Total		6.9000e-004	6.2600e-003	5.2600e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.8170	6.8170	1.3000e-004	1.2000e-004	6.8585

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	816759	222.0261	0.0107	2.2200e-003	222.9408
Total		222.0261	0.0107	2.2200e-003	222.9408

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	816759	222.0261	0.0107	2.2200e-003	222.9408
Total		222.0261	0.0107	2.2200e-003	222.9408

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.2614	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003
Unmitigated	0.3244	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0787					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003
Total	0.3244	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	1.7800e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.0158					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	0.0000	1.7800e-003
Total	0.2614	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6900e-003	1.6900e-003	0.0000	0.0000	0.0000	1.7800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System
- Use Water Efficient Landscaping

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	28.7291	0.1653	4.1400e-003	33.4856
Mitigated	23.4035	0.1323	3.3100e-003	27.2083

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	5.03323 / 3.08488	28.7291	0.1653	4.1400e-003	33.4856
Total		28.7291	0.1653	4.1400e-003	33.4856

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	4.02658 / 2.60703	23.4035	0.1323	3.3100e-003	27.2083
Total		23.4035	0.1323	3.3100e-003	27.2083

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
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	MT/yr			
Mitigated	14.4834	0.8559	0.0000	32.4582
Unmitigated	14.4834	0.8559	0.0000	32.4582

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	71.35	14.4834	0.8559	0.0000	32.4582
Total		14.4834	0.8559	0.0000	32.4582

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	71.35	14.4834	0.8559	0.0000	32.4582
Total		14.4834	0.8559	0.0000	32.4582

9.0 Operational Offroad

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