

APPENDIX J

Air Quality

Yamane Mixed-Use Proposed Project Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	134.00	Space	1.21	53,600.00	0
Strip Mall	4.79	1000sqft	0.00	4,792.00	0
Quality Restaurant	5.02	1000sqft	0.00	5,018.00	0
High Turnover (Sit Down Restaurant)	4.68	1000sqft	0.00	4,684.00	0
Fast Food Restaurant w/o Drive Thru	0.80	1000sqft	0.00	796.00	0
Apartments Mid Rise	134.00	Dwelling Unit	0.44	156,090.00	358

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Land Use - per SMAQMD User Tips, used residential land use as marker for lot acreage and zeroed out commercial acreage.

Land Use - Square Footage for Residential Use based on Project Description.

Construction Phase - Based on notional construction schedule provided by client on 5 Feb 2016.

Off-road Equipment - Construction equipment assumes CalEEMod defaults.

Off-road Equipment -

Off-road Equipment - Grading equipment adjusted to not duplicate Site Preparation equipment, as the two phases overlap in time.

Off-road Equipment -

Off-road Equipment -

Grading - Construction material movement during Site Prep and Grading based on PD. Phases overlap, so showing all material movement under Grading.

Demolition - Per client, estimated 280 CY concrete & 75 CY asphalt exported from demo. Per Cal Recycle, asphalt/concrete construction debris is calculated at 2,400 lbs/cy = 426 Tons of Debris.

Vehicle Trips - Adjusted Trip Rate according to traffic study.

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	101.00
tblConstructionPhase	NumDays	200.00	276.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	4.00	45.00
tblConstructionPhase	NumDays	2.00	45.00
tblConstructionPhase	PhaseEndDate	10/15/2018	5/25/2018
tblConstructionPhase	PhaseEndDate	5/7/2018	5/25/2018
tblConstructionPhase	PhaseEndDate	6/16/2017	4/14/2017
tblConstructionPhase	PhaseStartDate	5/26/2018	1/5/2018
tblConstructionPhase	PhaseStartDate	4/15/2017	5/5/2017
tblConstructionPhase	PhaseStartDate	4/15/2017	2/13/2017
tblConstructionPhase	PhaseStartDate	2/11/2017	2/13/2017
tblGrading	AcresOfGrading	16.88	0.44

tblGrading	AcresOfGrading	22.50	0.00
tblGrading	MaterialExported	0.00	18,600.00
tblLandUse	LandUseSquareFeet	4,790.00	4,792.00
tblLandUse	LandUseSquareFeet	5,020.00	5,018.00
tblLandUse	LandUseSquareFeet	4,680.00	4,684.00
tblLandUse	LandUseSquareFeet	800.00	796.00
tblLandUse	LandUseSquareFeet	134,000.00	156,090.00
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.12	0.00
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	3.53	0.44
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	ST_TR	7.16	3.02
tblVehicleTrips	ST_TR	696.00	574.26
tblVehicleTrips	ST_TR	158.37	22.18
tblVehicleTrips	ST_TR	94.36	12.24
tblVehicleTrips	ST_TR	42.04	31.61
tblVehicleTrips	SU_TR	6.07	2.56
tblVehicleTrips	SU_TR	500.00	412.55
tblVehicleTrips	SU_TR	131.84	18.46
tblVehicleTrips	SU_TR	72.16	9.36
tblVehicleTrips	SU_TR	20.43	15.36
tblVehicleTrips	WD_TR	6.59	2.78
tblVehicleTrips	WD_TR	716.00	590.80
tblVehicleTrips	WD_TR	127.15	17.78
tblVehicleTrips	WD_TR	89.95	11.68
tblVehicleTrips	WD_TR	44.32	30.09

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	0.4736	3.5014	3.3270	5.2500e-003	0.3422	0.1892	0.5315	0.1531	0.1791	0.3323	0.0000	444.8545	444.8545	0.0660	0.0000	446.2399
2018	1.6400	1.1277	1.2685	2.2700e-003	0.0653	0.0647	0.1300	0.0175	0.0627	0.0802	0.0000	181.4240	181.4240	0.0231	0.0000	181.9080
Total	2.1136	4.6292	4.5955	7.5200e-003	0.4075	0.2539	0.6614	0.1706	0.2418	0.4124	0.0000	626.2785	626.2785	0.0890	0.0000	628.1478

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	0.4736	3.5014	3.3270	5.2500e-003	0.3422	0.1892	0.5315	0.1531	0.1791	0.3323	0.0000	444.8542	444.8542	0.0660	0.0000	446.2395
2018	1.6400	1.1277	1.2685	2.2700e-003	0.0653	0.0647	0.1300	0.0175	0.0627	0.0802	0.0000	181.4239	181.4239	0.0231	0.0000	181.9078
Total	2.1136	4.6292	4.5955	7.5200e-003	0.4075	0.2539	0.6614	0.1706	0.2418	0.4124	0.0000	626.2780	626.2780	0.0890	0.0000	628.1474

	ROG	NOx	CO	SO2	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	1.0673	0.0162	1.3936	7.0000e-005		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	2.2610	2.2610	2.2500e-003	0.0000	2.3082
Energy	0.0176	0.1560	0.1055	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	542.1862	542.1862	0.0214	6.9300e-003	544.7853
Mobile	0.5543	0.9815	4.9070	9.6900e-003	0.6643	0.0129	0.6772	0.1780	0.0119	0.1898	0.0000	714.8361	714.8361	0.0302	0.0000	715.4711
Waste						0.0000	0.0000		0.0000	0.0000	27.6393	0.0000	27.6393	1.6334	0.0000	61.9413
Water						0.0000	0.0000		0.0000	0.0000	4.3421	21.9260	26.2680	0.0160	9.6700e-003	29.6008
Total	1.6392	1.1537	6.4061	0.0107	0.6643	0.0327	0.6969	0.1780	0.0316	0.2096	31.9813	1,281.2093	1,313.1906	1.7034	0.0166	1,354.1066

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0673	0.0162	1.3936	7.0000e-005		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	2.2610	2.2610	2.2500e-003	0.0000	2.3082
Energy	0.0176	0.1560	0.1055	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	542.1862	542.1862	0.0214	6.9300e-003	544.7853
Mobile	0.5543	0.9815	4.9070	9.6900e-003	0.6643	0.0129	0.6772	0.1780	0.0119	0.1898	0.0000	714.8361	714.8361	0.0302	0.0000	715.4711
Waste						0.0000	0.0000		0.0000	0.0000	27.6393	0.0000	27.6393	1.6334	0.0000	61.9413
Water						0.0000	0.0000		0.0000	0.0000	4.3421	21.9260	26.2680	0.0161	9.6800e-003	29.6056
Total	1.6392	1.1537	6.4061	0.0107	0.6643	0.0327	0.6969	0.1780	0.0316	0.2096	31.9813	1,281.2093	1,313.1906	1.7034	0.0166	1,354.1115

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/1/2017	2/10/2017	5	30	
2	Site Preparation	Site Preparation	2/13/2017	4/14/2017	5	45	
3	Grading	Grading	2/13/2017	4/14/2017	5	45	
4	Building Construction	Building Construction	5/5/2017	5/25/2018	5	276	
5	Architectural Coating	Architectural Coating	1/5/2018	5/25/2018	5	101	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.44

Acres of Paving: 0

Residential Indoor: 316,082; Residential Outdoor: 105,361; Non-Residential Indoor: 103,335; Non-Residential Outdoor: 34,445 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	174	0.41
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	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	42.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	2,325.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	125.00	26.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.7500e-003	0.0000	4.7500e-003	7.2000e-004	0.0000	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0408	0.3988	0.3131	3.7000e-004		0.0241	0.0241		0.0225	0.0225	0.0000	33.4407	33.4407	8.4800e-003	0.0000	33.6188
Total	0.0408	0.3988	0.3131	3.7000e-004	4.7500e-003	0.0241	0.0288	7.2000e-004	0.0225	0.0233	0.0000	33.4407	33.4407	8.4800e-003	0.0000	33.6188

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	4.7000e-004	4.8200e-003	6.7400e-003	2.0000e-005	3.5000e-004	7.0000e-005	4.2000e-004	1.0000e-004	6.0000e-005	1.6000e-004	0.0000	1.3568	1.3568	1.0000e-005	0.0000	1.3570
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	5.8000e-004	7.0000e-004	7.2900e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2276	1.2276	6.0000e-005	0.0000	1.2289
Total	1.0500e-003	5.5200e-003	0.0140	4.0000e-005	1.7800e-003	8.0000e-005	1.8600e-003	4.8000e-004	7.0000e-005	5.5000e-004	0.0000	2.5844	2.5844	7.0000e-005	0.0000	2.5859

3.2 Demolition - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.7500e-003	0.0000	4.7500e-003	7.2000e-004	0.0000	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0408	0.3988	0.3131	3.7000e-004		0.0241	0.0241		0.0225	0.0225	0.0000	33.4406	33.4406	8.4800e-003	0.0000	33.6188
Total	0.0408	0.3988	0.3131	3.7000e-004	4.7500e-003	0.0241	0.0288	7.2000e-004	0.0225	0.0233	0.0000	33.4406	33.4406	8.4800e-003	0.0000	33.6188

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	4.7000e-004	4.8200e-003	6.7400e-003	2.0000e-005	3.5000e-004	7.0000e-005	4.2000e-004	1.0000e-004	6.0000e-005	1.6000e-004	0.0000	1.3568	1.3568	1.0000e-005	0.0000	1.3570
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	5.8000e-004	7.0000e-004	7.2900e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2276	1.2276	6.0000e-005	0.0000	1.2289
Total	1.0500e-003	5.5200e-003	0.0140	4.0000e-005	1.7800e-003	8.0000e-005	1.8600e-003	4.8000e-004	7.0000e-005	5.5000e-004	0.0000	2.5844	2.5844	7.0000e-005	0.0000	2.5859

3.3 Site Preparation - 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					0.1186	0.0000	0.1186	0.0652	0.0000	0.0652	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0520	0.5452	0.3584	3.8000e-004		0.0294	0.0294		0.0271	0.0271	0.0000	35.7638	35.7638	0.0110	0.0000	35.9939
Total	0.0520	0.5452	0.3584	3.8000e-004	0.1186	0.0294	0.1480	0.0652	0.0271	0.0922	0.0000	35.7638	35.7638	0.0110	0.0000	35.9939

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	5.4000e-004	6.4000e-004	6.7300e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1332	1.1332	6.0000e-005	0.0000	1.1344
Total	5.4000e-004	6.4000e-004	6.7300e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1332	1.1332	6.0000e-005	0.0000	1.1344

3.3 Site Preparation - 2017

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					0.1186	0.0000	0.1186	0.0652	0.0000	0.0652	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0520	0.5452	0.3584	3.8000e-004		0.0294	0.0294		0.0271	0.0271	0.0000	35.7637	35.7637	0.0110	0.0000	35.9938
Total	0.0520	0.5452	0.3584	3.8000e-004	0.1186	0.0294	0.1480	0.0652	0.0271	0.0922	0.0000	35.7637	35.7637	0.0110	0.0000	35.9938

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	5.4000e-004	6.4000e-004	6.7300e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1332	1.1332	6.0000e-005	0.0000	1.1344
Total	5.4000e-004	6.4000e-004	6.7300e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1332	1.1332	6.0000e-005	0.0000	1.1344

3.4 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					0.1038	0.0000	0.1038	0.0562	0.0000	0.0562	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0424	0.4453	0.2965	3.2000e-004		0.0240	0.0240		0.0221	0.0221	0.0000	29.3762	29.3762	9.0000e-003	0.0000	29.5653
Total	0.0424	0.4453	0.2965	3.2000e-004	0.1038	0.0240	0.1278	0.0562	0.0221	0.0783	0.0000	29.3762	29.3762	9.0000e-003	0.0000	29.5653

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	0.0263	0.2669	0.3732	8.4000e-004	0.0195	3.8000e-003	0.0233	5.3600e-003	3.4900e-003	8.8600e-003	0.0000	75.1105	75.1105	5.0000e-004	0.0000	75.1211
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	5.4000e-004	6.4000e-004	6.7300e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1332	1.1332	6.0000e-005	0.0000	1.1344
Total	0.0268	0.2675	0.3800	8.6000e-004	0.0209	3.8100e-003	0.0247	5.7100e-003	3.5000e-003	9.2200e-003	0.0000	76.2436	76.2436	5.6000e-004	0.0000	76.2554

3.4 Grading - 2017

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					0.1038	0.0000	0.1038	0.0562	0.0000	0.0562	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0424	0.4453	0.2965	3.2000e-004		0.0240	0.0240		0.0221	0.0221	0.0000	29.3762	29.3762	9.0000e-003	0.0000	29.5652
Total	0.0424	0.4453	0.2965	3.2000e-004	0.1038	0.0240	0.1278	0.0562	0.0221	0.0783	0.0000	29.3762	29.3762	9.0000e-003	0.0000	29.5652

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	0.0263	0.2669	0.3732	8.4000e-004	0.0195	3.8000e-003	0.0233	5.3600e-003	3.4900e-003	8.8600e-003	0.0000	75.1105	75.1105	5.0000e-004	0.0000	75.1211
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	5.4000e-004	6.4000e-004	6.7300e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1332	1.1332	6.0000e-005	0.0000	1.1344
Total	0.0268	0.2675	0.3800	8.6000e-004	0.0209	3.8100e-003	0.0247	5.7100e-003	3.5000e-003	9.2200e-003	0.0000	76.2436	76.2436	5.6000e-004	0.0000	76.2554

3.5 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	0.2526	1.6338	1.2236	1.8800e-003		0.1048	0.1048		0.1011	0.1011	0.0000	157.7880	157.7880	0.0331	0.0000	158.4832
Total	0.2526	1.6338	1.2236	1.8800e-003		0.1048	0.1048		0.1011	0.1011	0.0000	157.7880	157.7880	0.0331	0.0000	158.4832

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	0.0255	0.1666	0.3349	4.6000e-004	0.0127	2.4800e-003	0.0152	3.6300e-003	2.2800e-003	5.9100e-003	0.0000	41.2441	41.2441	3.1000e-004	0.0000	41.2507
Worker	0.0318	0.0382	0.3997	9.4000e-004	0.0785	5.8000e-004	0.0791	0.0209	5.3000e-004	0.0214	0.0000	67.2806	67.2806	3.4200e-003	0.0000	67.3523
Total	0.0573	0.2048	0.7347	1.4000e-003	0.0912	3.0600e-003	0.0942	0.0245	2.8100e-003	0.0273	0.0000	108.5247	108.5247	3.7300e-003	0.0000	108.6030

3.5 Building Construction - 2017

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	0.2526	1.6338	1.2236	1.8800e-003		0.1048	0.1048		0.1011	0.1011	0.0000	157.7878	157.7878	0.0331	0.0000	158.4830
Total	0.2526	1.6338	1.2236	1.8800e-003		0.1048	0.1048		0.1011	0.1011	0.0000	157.7878	157.7878	0.0331	0.0000	158.4830

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	0.0255	0.1666	0.3349	4.6000e-004	0.0127	2.4800e-003	0.0152	3.6300e-003	2.2800e-003	5.9100e-003	0.0000	41.2441	41.2441	3.1000e-004	0.0000	41.2507
Worker	0.0318	0.0382	0.3997	9.4000e-004	0.0785	5.8000e-004	0.0791	0.0209	5.3000e-004	0.0214	0.0000	67.2806	67.2806	3.4200e-003	0.0000	67.3523
Total	0.0573	0.2048	0.7347	1.4000e-003	0.0912	3.0600e-003	0.0942	0.0245	2.8100e-003	0.0273	0.0000	108.5247	108.5247	3.7300e-003	0.0000	108.6030

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1356	0.9092	0.7264	1.1500e-003		0.0553	0.0553		0.0534	0.0534	0.0000	96.2743	96.2743	0.0193	0.0000	96.6802
Total	0.1356	0.9092	0.7264	1.1500e-003		0.0553	0.0553		0.0534	0.0534	0.0000	96.2743	96.2743	0.0193	0.0000	96.6802

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	0.0130	0.0922	0.1855	2.8000e-004	7.7900e-003	1.4000e-003	9.1900e-003	2.2300e-003	1.2900e-003	3.5100e-003	0.0000	24.8575	24.8575	1.9000e-004	0.0000	24.8615
Worker	0.0174	0.0211	0.2206	5.8000e-004	0.0482	3.5000e-004	0.0485	0.0128	3.2000e-004	0.0131	0.0000	39.7509	39.7509	1.9300e-003	0.0000	39.7915
Total	0.0304	0.1132	0.4061	8.6000e-004	0.0560	1.7500e-003	0.0577	0.0151	1.6100e-003	0.0167	0.0000	64.6085	64.6085	2.1200e-003	0.0000	64.6529

3.5 Building Construction - 2018

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	0.1356	0.9092	0.7264	1.1500e-003		0.0553	0.0553		0.0534	0.0534	0.0000	96.2742	96.2742	0.0193	0.0000	96.6801
Total	0.1356	0.9092	0.7264	1.1500e-003		0.0553	0.0553		0.0534	0.0534	0.0000	96.2742	96.2742	0.0193	0.0000	96.6801

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	0.0130	0.0922	0.1855	2.8000e-004	7.7900e-003	1.4000e-003	9.1900e-003	2.2300e-003	1.2900e-003	3.5100e-003	0.0000	24.8575	24.8575	1.9000e-004	0.0000	24.8615
Worker	0.0174	0.0211	0.2206	5.8000e-004	0.0482	3.5000e-004	0.0485	0.0128	3.2000e-004	0.0131	0.0000	39.7509	39.7509	1.9300e-003	0.0000	39.7915
Total	0.0304	0.1132	0.4061	8.6000e-004	0.0560	1.7500e-003	0.0577	0.0151	1.6100e-003	0.0167	0.0000	64.6085	64.6085	2.1200e-003	0.0000	64.6529

3.6 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	1.4557					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0151	0.1013	0.0936	1.5000e-004		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	12.8940	12.8940	1.2300e-003	0.0000	12.9197
Total	1.4707	0.1013	0.0936	1.5000e-004		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	12.8940	12.8940	1.2300e-003	0.0000	12.9197

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	3.3500e-003	4.0600e-003	0.0424	1.1000e-004	9.2700e-003	7.0000e-005	9.3400e-003	2.4700e-003	6.0000e-005	2.5300e-003	0.0000	7.6473	7.6473	3.7000e-004	0.0000	7.6551
Total	3.3500e-003	4.0600e-003	0.0424	1.1000e-004	9.2700e-003	7.0000e-005	9.3400e-003	2.4700e-003	6.0000e-005	2.5300e-003	0.0000	7.6473	7.6473	3.7000e-004	0.0000	7.6551

3.6 Architectural Coating - 2018

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	1.4557					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0151	0.1013	0.0936	1.5000e-004		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	12.8939	12.8939	1.2300e-003	0.0000	12.9197
Total	1.4707	0.1013	0.0936	1.5000e-004		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	12.8939	12.8939	1.2300e-003	0.0000	12.9197

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	3.3500e-003	4.0600e-003	0.0424	1.1000e-004	9.2700e-003	7.0000e-005	9.3400e-003	2.4700e-003	6.0000e-005	2.5300e-003	0.0000	7.6473	7.6473	3.7000e-004	0.0000	7.6551
Total	3.3500e-003	4.0600e-003	0.0424	1.1000e-004	9.2700e-003	7.0000e-005	9.3400e-003	2.4700e-003	6.0000e-005	2.5300e-003	0.0000	7.6473	7.6473	3.7000e-004	0.0000	7.6551

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	0.5543	0.9815	4.9070	9.6900e-003	0.6643	0.0129	0.6772	0.1780	0.0119	0.1898	0.0000	714.8361	714.8361	0.0302	0.0000	715.4711
Unmitigated	0.5543	0.9815	4.9070	9.6900e-003	0.6643	0.0129	0.6772	0.1780	0.0119	0.1898	0.0000	714.8361	714.8361	0.0302	0.0000	715.4711

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	372.52	404.68	343.04	956,909	956,909
Enclosed Parking with Elevator	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	472.64	459.41	330.04	531,388	531,388
High Turnover (Sit Down Restaurant)	83.21	103.80	86.39	76,958	76,958
Quality Restaurant	58.63	61.44	46.99	53,150	53,150
Strip Mall	144.13	151.41	73.57	166,120	166,120
Total	1,131.14	1,180.75	880.03	1,784,526	1,784,526

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Enclosed Parking with Elevator	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	10.00	5.00	6.50	1.50	79.50	19.00	51	37	12
High Turnover (Sit Down	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Quality Restaurant	10.00	5.00	6.50	12.00	69.00	19.00	38	18	44
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504263	0.068212	0.178684	0.146863	0.044671	0.006294	0.020946	0.016568	0.002299	0.002275	0.006187	0.000564	0.002174

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	368.0916	368.0916	0.0181	3.7400e-003	369.6312
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	368.0916	368.0916	0.0181	3.7400e-003	369.6312
NaturalGas Mitigated	0.0176	0.1560	0.1055	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.0946	174.0946	3.3400e-003	3.1900e-003	175.1541
NaturalGas Unmitigated	0.0176	0.1560	0.1055	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.0946	174.0946	3.3400e-003	3.1900e-003	175.1541

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	143941	7.8000e-004	7.0600e-003	5.9300e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.6812	7.6812	1.5000e-004	1.4000e-004	7.7280	
High Turnover (Sit Down Restaurant)	847008	4.5700e-003	0.0415	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003	0.0000	45.1996	45.1996	8.7000e-004	8.3000e-004	45.4746	
Quality Restaurant	907405	4.8900e-003	0.0445	0.0374	2.7000e-004		3.3800e-003	3.3800e-003		3.3800e-003	3.3800e-003	0.0000	48.4226	48.4226	9.3000e-004	8.9000e-004	48.7173	
Strip Mall	27074.8	1.5000e-004	1.3300e-003	1.1100e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4448	1.4448	3.0000e-005	3.0000e-005	1.4536	
Apartments Mid Rise	1.33698e+006	7.2100e-003	0.0616	0.0262	3.9000e-004		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	71.3464	71.3464	1.3700e-003	1.3100e-003	71.7806	
Total		0.0176	0.1560	0.1055	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.0946	174.0946	3.3500e-003	3.2000e-003	175.1541	

5.2 Energy by Land Use - NaturalGas

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					
Fast Food Restaurant w/o Drive Thru	143941	7.8000e-004	7.0600e-003	5.9300e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.6812	7.6812	1.5000e-004	1.4000e-004	7.7280
High Turnover (Sit Down Restaurant)	847008	4.5700e-003	0.0415	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003	0.0000	45.1996	45.1996	8.7000e-004	8.3000e-004	45.4746
Quality Restaurant	907405	4.8900e-003	0.0445	0.0374	2.7000e-004		3.3800e-003	3.3800e-003		3.3800e-003	3.3800e-003	0.0000	48.4226	48.4226	9.3000e-004	8.9000e-004	48.7173
Strip Mall	27074.8	1.5000e-004	1.3300e-003	1.1100e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4448	1.4448	3.0000e-005	3.0000e-005	1.4536
Apartments Mid Rise	1.33698e+006	7.2100e-003	0.0616	0.0262	3.9000e-004		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	71.3464	71.3464	1.3700e-003	1.3100e-003	71.7806
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0176	0.1560	0.1055	9.6000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	174.0946	174.0946	3.3500e-003	3.2000e-003	175.1541

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	484864	129.8273	6.3800e-003	1.3200e-003	130.3703
Enclosed Parking with Elevator	361264	96.7321	4.7500e-003	9.8000e-004	97.1367
Fast Food Restaurant w/o Drive Thru	35366.3	9.4697	4.7000e-004	1.0000e-004	9.5093
High Turnover (Sit Down Restaurant)	208110	55.7236	2.7400e-003	5.7000e-004	55.9567
Quality Restaurant	222950	59.6971	2.9300e-003	6.1000e-004	59.9467
Strip Mall	62152.2	16.6419	8.2000e-004	1.7000e-004	16.7115
Total		368.0916	0.0181	3.7500e-003	369.6312

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	484864	129.8273	6.3800e-003	1.3200e-003	130.3703
Enclosed Parking with Elevator	361264	96.7321	4.7500e-003	9.8000e-004	97.1367
Fast Food Restaurant w/o Drive Thru	35366.3	9.4697	4.7000e-004	1.0000e-004	9.5093
High Turnover (Sit Down Restaurant)	208110	55.7236	2.7400e-003	5.7000e-004	55.9567
Quality Restaurant	222950	59.6971	2.9300e-003	6.1000e-004	59.9467
Strip Mall	62152.2	16.6419	8.2000e-004	1.7000e-004	16.7115
Total		368.0916	0.0181	3.7500e-003	369.6312

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	1.0673	0.0162	1.3936	7.0000e-005		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	2.2610	2.2610	2.2500e-003	0.0000	2.3082
Unmitigated	1.0673	0.0162	1.3936	7.0000e-005		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	2.2610	2.2610	2.2500e-003	0.0000	2.3082

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	0.1456					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8787					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0431	0.0162	1.3936	7.0000e-005		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	2.2610	2.2610	2.2500e-003	0.0000	2.3082
Total	1.0673	0.0162	1.3936	7.0000e-005		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	2.2610	2.2610	2.2500e-003	0.0000	2.3082

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1456					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8787					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0431	0.0162	1.3936	7.0000e-005		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	2.2610	2.2610	2.2500e-003	0.0000	2.3082
Total	1.0673	0.0162	1.3936	7.0000e-005		7.6000e-003	7.6000e-003		7.6000e-003	7.6000e-003	0.0000	2.2610	2.2610	2.2500e-003	0.0000	2.3082

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	26.2680	0.0161	9.6800e-003	29.6056
Unmitigated	26.2680	0.0160	9.6700e-003	29.6008

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	8.73064 / 5.5041	19.8951	0.0115	6.8900e-003	22.2710
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0.242827 / 0.0154996	0.4244	3.1000e-004	1.9000e-004	0.4900
High Turnover (Sit Down Restaurant)	1.42054 / 0.0906726	2.4828	1.8300e-003	1.1100e-003	2.8662
Quality Restaurant	1.52374 / 0.0972599	2.6631	1.9600e-003	1.1900e-003	3.0744
Strip Mall	0.354807 / 0.217463	0.8027	4.7000e-004	2.8000e-004	0.8992
Total		26.2680	0.0160	9.6600e-003	29.6008

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	8.73064 / 5.5041	19.8951	0.0115	6.9000e-003	22.2744
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0.242827 / 0.0154996	0.4244	3.1000e-004	1.9000e-004	0.4900
High Turnover (Sit Down Restaurant)	1.42054 / 0.0906726	2.4828	1.8300e-003	1.1100e-003	2.8668
Quality Restaurant	1.52374 / 0.0972599	2.6631	1.9700e-003	1.2000e-003	3.0750
Strip Mall	0.354807 / 0.217463	0.8027	4.7000e-004	2.8000e-004	0.8994
Total		26.2680	0.0161	9.6800e-003	29.6056

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	27.6393	1.6334	0.0000	61.9413
Unmitigated	27.6393	1.6334	0.0000	61.9413

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	61.64	12.5124	0.7395	0.0000	28.0410
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	9.22	1.8716	0.1106	0.0000	4.1943
High Turnover (Sit Down Restaurant)	55.69	11.3046	0.6681	0.0000	25.3343
Quality Restaurant	4.58	0.9297	0.0549	0.0000	2.0835
Strip Mall	5.03	1.0210	0.0603	0.0000	2.2882
Total		27.6393	1.6334	0.0000	61.9413

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	61.64	12.5124	0.7395	0.0000	28.0410
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	9.22	1.8716	0.1106	0.0000	4.1943
High Turnover (Sit Down Restaurant)	55.69	11.3046	0.6681	0.0000	25.3343
Quality Restaurant	4.58	0.9297	0.0549	0.0000	2.0835
Strip Mall	5.03	1.0210	0.0603	0.0000	2.2882
Total		27.6393	1.6334	0.0000	61.9413

9.0 Operational Offroad

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

10.0 Vegetation

Yamane Mixed-Use Proposed Project Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	134.00	Space	1.21	53,600.00	0
Strip Mall	4.79	1000sqft	0.00	4,792.00	0
Quality Restaurant	5.02	1000sqft	0.00	5,018.00	0
High Turnover (Sit Down Restaurant)	4.68	1000sqft	0.00	4,684.00	0
Fast Food Restaurant w/o Drive Thru	0.80	1000sqft	0.00	796.00	0
Apartments Mid Rise	134.00	Dwelling Unit	0.44	156,090.00	358

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Land Use - per SMAQMD User Tips, used residential land use as marker for lot acreage and zeroed out commercial acreage.

Land Use - Square Footage for Residential Use based on Project Description.

Construction Phase - Based on notional construction schedule provided by client on 5 Feb 2016.

Off-road Equipment - Construction equipment assumes CalEEMod defaults.

Off-road Equipment -

Off-road Equipment - Grading equipment adjusted to not duplicate Site Preparation equipment, as the two phases overlap in time.

Off-road Equipment -

Off-road Equipment -

Grading - Construction material movement during Site Prep and Grading based on PD. Phases overlap, so showing all material movement under Grading.

Demolition - Per client, estimated 280 CY concrete & 75 CY asphalt exported from demo. Per Cal Recycle, asphalt/concrete construction debris is calculated at 2,400 lbs/cy = 426 Tons of Debris.

Vehicle Trips - Adjusted Trip Rate according to traffic study.

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	101.00
tblConstructionPhase	NumDays	200.00	276.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	4.00	45.00
tblConstructionPhase	NumDays	2.00	45.00
tblConstructionPhase	PhaseEndDate	10/15/2018	5/25/2018
tblConstructionPhase	PhaseEndDate	5/7/2018	5/25/2018
tblConstructionPhase	PhaseEndDate	6/16/2017	4/14/2017
tblConstructionPhase	PhaseStartDate	5/26/2018	1/5/2018
tblConstructionPhase	PhaseStartDate	4/15/2017	5/5/2017
tblConstructionPhase	PhaseStartDate	4/15/2017	2/13/2017
tblConstructionPhase	PhaseStartDate	2/11/2017	2/13/2017
tblGrading	AcresOfGrading	16.88	0.44

tblGrading	AcresOfGrading	22.50	0.00
tblGrading	MaterialExported	0.00	18,600.00
tblLandUse	LandUseSquareFeet	4,790.00	4,792.00
tblLandUse	LandUseSquareFeet	5,020.00	5,018.00
tblLandUse	LandUseSquareFeet	4,680.00	4,684.00
tblLandUse	LandUseSquareFeet	800.00	796.00
tblLandUse	LandUseSquareFeet	134,000.00	156,090.00
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.12	0.00
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	3.53	0.44
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	ST_TR	7.16	3.02
tblVehicleTrips	ST_TR	696.00	574.26
tblVehicleTrips	ST_TR	158.37	22.18
tblVehicleTrips	ST_TR	94.36	12.24
tblVehicleTrips	ST_TR	42.04	31.61
tblVehicleTrips	SU_TR	6.07	2.56
tblVehicleTrips	SU_TR	500.00	412.55
tblVehicleTrips	SU_TR	131.84	18.46
tblVehicleTrips	SU_TR	72.16	9.36
tblVehicleTrips	SU_TR	20.43	15.36
tblVehicleTrips	WD_TR	6.59	2.78
tblVehicleTrips	WD_TR	716.00	590.80
tblVehicleTrips	WD_TR	127.15	17.78
tblVehicleTrips	WD_TR	89.95	11.68
tblVehicleTrips	WD_TR	44.32	30.09

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	5.3374	55.2012	44.5912	0.0700	10.8992	2.5424	13.4416	5.6705	2.3388	8.0094	0.0000	6,997.732 3	6,997.732 3	1.0080	0.0000	7,018.900 1
2018	32.4120	21.4256	24.3979	0.0449	1.2938	1.2382	2.5320	0.3462	1.1995	1.5456	0.0000	3,935.100 5	3,935.100 5	0.4852	0.0000	3,945.288 6
Total	37.7494	76.6268	68.9891	0.1149	12.1930	3.7806	15.9736	6.0167	3.5383	9.5550	0.0000	10,932.83 28	10,932.83 28	1.4931	0.0000	10,964.18 87

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	5.3374	55.2012	44.5912	0.0700	10.8992	2.5424	13.4416	5.6705	2.3388	8.0094	0.0000	6,997.732 3	6,997.732 3	1.0080	0.0000	7,018.900 1
2018	32.4120	21.4256	24.3979	0.0449	1.2938	1.2382	2.5320	0.3462	1.1995	1.5456	0.0000	3,935.100 5	3,935.100 5	0.4852	0.0000	3,945.288 6
Total	37.7494	76.6268	68.9891	0.1149	12.1930	3.7806	15.9736	6.0167	3.5383	9.5550	0.0000	10,932.83 28	10,932.83 28	1.4931	0.0000	10,964.18 87

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548
Energy	0.0964	0.8547	0.5781	5.2600e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415
Mobile	3.7669	5.4383	29.5148	0.0625	4.0897	0.0765	4.1662	1.0925	0.0705	1.1630		5,060.8002	5,060.8002	0.1984		5,064.9662
Total	9.8202	6.4225	41.2417	0.0683	4.0897	0.2039	4.2936	1.0925	0.1979	1.2904	0.0000	6,132.2809	6,132.2809	0.2384	0.0193	6,143.2625

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548
Energy	0.0964	0.8547	0.5781	5.2600e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415
Mobile	3.7669	5.4383	29.5148	0.0625	4.0897	0.0765	4.1662	1.0925	0.0705	1.1630		5,060.8002	5,060.8002	0.1984		5,064.9662
Total	9.8202	6.4225	41.2417	0.0683	4.0897	0.2039	4.2936	1.0925	0.1979	1.2904	0.0000	6,132.2809	6,132.2809	0.2384	0.0193	6,143.2625

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/1/2017	2/10/2017	5	30	
2	Site Preparation	Site Preparation	2/13/2017	4/14/2017	5	45	
3	Grading	Grading	2/13/2017	4/14/2017	5	45	
4	Building Construction	Building Construction	5/5/2017	5/25/2018	5	276	
5	Architectural Coating	Architectural Coating	1/5/2018	5/25/2018	5	101	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.44

Acres of Paving: 0

Residential Indoor: 316,082; Residential Outdoor: 105,361; Non-Residential Indoor: 103,335; Non-Residential Outdoor: 34,445 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	174	0.41
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	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	42.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	2,325.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	125.00	26.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3168	0.0000	0.3168	0.0480	0.0000	0.0480			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022		2,457.4682	2,457.4682	0.6235		2,470.5620
Total	2.7216	26.5855	20.8712	0.0245	0.3168	1.6062	1.9230	0.0480	1.5022	1.5502		2,457.4682	2,457.4682	0.6235		2,470.5620

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0294	0.3016	0.4008	1.0100e-003	0.0243	4.5700e-003	0.0288	6.6400e-003	4.2000e-003	0.0108		99.8125	99.8125	6.6000e-004		99.8264
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0419	0.5616	1.2600e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		99.8269	99.8269	4.5800e-003		99.9231
Total	0.0759	0.3435	0.9624	2.2700e-003	0.1232	5.2700e-003	0.1284	0.0329	4.8500e-003	0.0377		199.6393	199.6393	5.2400e-003		199.7495

3.2 Demolition - 2017**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3168	0.0000	0.3168	0.0480	0.0000	0.0480			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022	0.0000	2,457.468 2	2,457.468 2	0.6235		2,470.562 0
Total	2.7216	26.5855	20.8712	0.0245	0.3168	1.6062	1.9230	0.0480	1.5022	1.5502	0.0000	2,457.468 2	2,457.468 2	0.6235		2,470.562 0

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0294	0.3016	0.4008	1.0100e-003	0.0243	4.5700e-003	0.0288	6.6400e-003	4.2000e-003	0.0108		99.8125	99.8125	6.6000e-004		99.8264
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0465	0.0419	0.5616	1.2600e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		99.8269	99.8269	4.5800e-003		99.9231
Total	0.0759	0.3435	0.9624	2.2700e-003	0.1232	5.2700e-003	0.1284	0.0329	4.8500e-003	0.0377		199.6393	199.6393	5.2400e-003		199.7495

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					5.2693	0.0000	5.2693	2.8965	0.0000	2.8965			0.0000				0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171		1.3067	1.3067		1.2022	1.2022		1,752.1239	1,752.1239	0.5369			1,763.3977
Total	2.3109	24.2288	15.9299	0.0171	5.2693	1.3067	6.5761	2.8965	1.2022	4.0987		1,752.1239	1,752.1239	0.5369			1,763.3977

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003			61.4911
Total	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003			61.4911

3.3 Site Preparation - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.2693	0.0000	5.2693	2.8965	0.0000	2.8965			0.0000			0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171		1.3067	1.3067		1.2022	1.2022	0.0000	1,752.1239	1,752.1239	0.5369		1,763.3977
Total	2.3109	24.2288	15.9299	0.0171	5.2693	1.3067	6.5761	2.8965	1.2022	4.0987	0.0000	1,752.1239	1,752.1239	0.5369		1,763.3977

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911
Total	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911

3.4 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	lb/day										lb/day					
Fugitive Dust					4.6124	0.0000	4.6124	2.4967	0.0000	2.4967			0.0000			0.0000
Off-Road	1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808		1,439.1894	1,439.1894	0.4410		1,448.4496
Total	1.8844	19.7889	13.1786	0.0141	4.6124	1.0661	5.6785	2.4967	0.9808	3.4776		1,439.1894	1,439.1894	0.4410		1,448.4496

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0849	11.1320	14.7915	0.0372	0.8958	0.1686	1.0644	0.2451	0.1550	0.4001		3,683.5552	3,683.5552	0.0245		3,684.0705
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911
Total	1.1135	11.1578	15.1371	0.0380	0.9566	0.1691	1.1257	0.2612	0.1554	0.4166		3,744.9871	3,744.9871	0.0274		3,745.5616

3.4 Grading - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6124	0.0000	4.6124	2.4967	0.0000	2.4967			0.0000			0.0000
Off-Road	1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496
Total	1.8844	19.7889	13.1786	0.0141	4.6124	1.0661	5.6785	2.4967	0.9808	3.4776	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0849	11.1320	14.7915	0.0372	0.8958	0.1686	1.0644	0.2451	0.1550	0.4001		3,683.5552	3,683.5552	0.0245		3,684.0705
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0286	0.0258	0.3456	7.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		61.4319	61.4319	2.8200e-003		61.4911
Total	1.1135	11.1578	15.1371	0.0380	0.9566	0.1691	1.1257	0.2612	0.1554	0.4166		3,744.9871	3,744.9871	0.0274		3,745.5616

3.5 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	lb/day										lb/day					
Off-Road	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497
Total	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2709	1.8494	3.2810	5.4300e-003	0.1528	0.0289	0.1816	0.0435	0.0265	0.0700		533.7016	533.7016	3.9800e-003		533.7852
Worker	0.4467	0.4028	5.4001	0.0122	0.9509	6.7500e-003	0.9576	0.2522	6.2300e-003	0.2585		959.8739	959.8739	0.0440		960.7987
Total	0.7175	2.2522	8.6811	0.0176	1.1036	0.0356	1.1392	0.2957	0.0327	0.3284		1,493.5755	1,493.5755	0.0480		1,494.5839

3.5 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823	0.0000	2,034.2860	2,034.2860	0.4268		2,043.2497
Total	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823	0.0000	2,034.2860	2,034.2860	0.4268		2,043.2497

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2709	1.8494	3.2810	5.4300e-003	0.1528	0.0289	0.1816	0.0435	0.0265	0.0700		533.7016	533.7016	3.9800e-003		533.7852
Worker	0.4467	0.4028	5.4001	0.0122	0.9509	6.7500e-003	0.9576	0.2522	6.2300e-003	0.2585		959.8739	959.8739	0.0440		960.7987
Total	0.7175	2.2522	8.6811	0.0176	1.1036	0.0356	1.1392	0.2957	0.0327	0.3284		1,493.5755	1,493.5755	0.0480		1,494.5839

3.5 Building Construction - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172		2,021.4136	2,021.4136	0.4059		2,029.9373
Total	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172		2,021.4136	2,021.4136	0.4059		2,029.9373

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2251	1.6671	2.8631	5.4000e-003	0.1527	0.0265	0.1792	0.0435	0.0244	0.0679		523.8511	523.8511	3.8800e-003		523.9326
Worker	0.4007	0.3629	4.8708	0.0122	0.9509	6.6200e-003	0.9575	0.2522	6.1200e-003	0.2584		923.6561	923.6561	0.0405		924.5071
Total	0.6258	2.0300	7.7339	0.0176	1.1036	0.0331	1.1367	0.2957	0.0305	0.3262		1,447.5072	1,447.5072	0.0444		1,448.4397

3.5 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172	0.0000	2,021.4136	2,021.4136	0.4059		2,029.9373
Total	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172	0.0000	2,021.4136	2,021.4136	0.4059		2,029.9373

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2251	1.6671	2.8631	5.4000e-003	0.1527	0.0265	0.1792	0.0435	0.0244	0.0679		523.8511	523.8511	3.8800e-003		523.9326
Worker	0.4007	0.3629	4.8708	0.0122	0.9509	6.6200e-003	0.9575	0.2522	6.1200e-003	0.2584		923.6561	923.6561	0.0405		924.5071
Total	0.6258	2.0300	7.7339	0.0176	1.1036	0.0331	1.1367	0.2957	0.0305	0.3262		1,447.5072	1,447.5072	0.0444		1,448.4397

3.6 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	lb/day										lb/day					
Archit. Coating	28.8248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	29.1234	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0801	0.0726	0.9742	2.4300e-003	0.1902	1.3200e-003	0.1915	0.0505	1.2200e-003	0.0517		184.7312	184.7312	8.1000e-003		184.9014
Total	0.0801	0.0726	0.9742	2.4300e-003	0.1902	1.3200e-003	0.1915	0.0505	1.2200e-003	0.0517		184.7312	184.7312	8.1000e-003		184.9014

3.6 Architectural Coating - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.8248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	29.1234	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0801	0.0726	0.9742	2.4300e-003	0.1902	1.3200e-003	0.1915	0.0505	1.2200e-003	0.0517		184.7312	184.7312	8.1000e-003		184.9014
Total	0.0801	0.0726	0.9742	2.4300e-003	0.1902	1.3200e-003	0.1915	0.0505	1.2200e-003	0.0517		184.7312	184.7312	8.1000e-003		184.9014

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.7669	5.4383	29.5148	0.0625	4.0897	0.0765	4.1662	1.0925	0.0705	1.1630		5,060.800 2	5,060.800 2	0.1984		5,064.966 2
Unmitigated	3.7669	5.4383	29.5148	0.0625	4.0897	0.0765	4.1662	1.0925	0.0705	1.1630		5,060.800 2	5,060.800 2	0.1984		5,064.966 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	372.52	404.68	343.04	956,909	956,909
Enclosed Parking with Elevator	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	472.64	459.41	330.04	531,388	531,388
High Turnover (Sit Down Restaurant)	83.21	103.80	86.39	76,958	76,958
Quality Restaurant	58.63	61.44	46.99	53,150	53,150
Strip Mall	144.13	151.41	73.57	166,120	166,120
Total	1,131.14	1,180.75	880.03	1,784,526	1,784,526

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Enclosed Parking with Elevator	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	10.00	5.00	6.50	1.50	79.50	19.00	51	37	12
High Turnover (Sit Down	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Quality Restaurant	10.00	5.00	6.50	12.00	69.00	19.00	38	18	44
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504263	0.068212	0.178684	0.146863	0.044671	0.006294	0.020946	0.016568	0.002299	0.002275	0.006187	0.000564	0.002174

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
	lb/day										lb/day					
NaturalGas Mitigated	0.0964	0.8547	0.5781	5.2600e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415
NaturalGas Unmitigated	0.0964	0.8547	0.5781	5.2600e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant w/o Drive Thru	394.358	4.2500e-003	0.0387	0.0325	2.3000e-004		2.9400e-003	2.9400e-003		2.9400e-003	2.9400e-003		46.3951	46.3951	8.9000e-004	8.5000e-004	46.6774
High Turnover (Sit Down Restaurant)	2320.57	0.0250	0.2275	0.1911	1.3700e-003		0.0173	0.0173		0.0173	0.0173		273.0081	273.0081	5.2300e-003	5.0100e-003	274.6696
Quality Restaurant	2486.04	0.0268	0.2437	0.2047	1.4600e-003		0.0185	0.0185		0.0185	0.0185		292.4754	292.4754	5.6100e-003	5.3600e-003	294.2554
Strip Mall	74.1775	8.0000e-004	7.2700e-003	6.1100e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		8.7268	8.7268	1.7000e-004	1.6000e-004	8.7799
Apartments Mid Rise	3662.96	0.0395	0.3376	0.1437	2.1500e-003		0.0273	0.0273		0.0273	0.0273		430.9367	430.9367	8.2600e-003	7.9000e-003	433.5593
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0964	0.8547	0.5781	5.2500e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant w/o Drive Thru	0.394358	4.2500e-003	0.0387	0.0325	2.3000e-004		2.9400e-003	2.9400e-003		2.9400e-003	2.9400e-003		46.3951	46.3951	8.9000e-004	8.5000e-004	46.6774
High Turnover (Sit Down Restaurant)	2.32057	0.0250	0.2275	0.1911	1.3700e-003		0.0173	0.0173		0.0173	0.0173		273.0081	273.0081	5.2300e-003	5.0100e-003	274.6696
Quality Restaurant	2.48604	0.0268	0.2437	0.2047	1.4600e-003		0.0185	0.0185		0.0185	0.0185		292.4754	292.4754	5.6100e-003	5.3600e-003	294.2554
Strip Mall	0.0741775	8.0000e-004	7.2700e-003	6.1100e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		8.7268	8.7268	1.7000e-004	1.6000e-004	8.7799
Apartments Mid Rise	3.66296	0.0395	0.3376	0.1437	2.1500e-003		0.0273	0.0273		0.0273	0.0273		430.9367	430.9367	8.2600e-003	7.9000e-003	433.5593
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0964	0.8547	0.5781	5.2500e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548
Unmitigated	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7976					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3447	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608		19.9387	19.9387	0.0198		20.3548
Total	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7976					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3447	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608		19.9387	19.9387	0.0198		20.3548
Total	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Yamane Mixed-Use Proposed Project Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	134.00	Space	1.21	53,600.00	0
Strip Mall	4.79	1000sqft	0.00	4,792.00	0
Quality Restaurant	5.02	1000sqft	0.00	5,018.00	0
High Turnover (Sit Down Restaurant)	4.68	1000sqft	0.00	4,684.00	0
Fast Food Restaurant w/o Drive Thru	0.80	1000sqft	0.00	796.00	0
Apartments Mid Rise	134.00	Dwelling Unit	0.44	156,090.00	358

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2018
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Land Use - per SMAQMD User Tips, used residential land use as marker for lot acreage and zeroed out commercial acreage.

Land Use - Square Footage for Residential Use based on Project Description.

Construction Phase - Based on notional construction schedule provided by client on 5 Feb 2016.

Off-road Equipment - Construction equipment assumes CalEEMod defaults.

Off-road Equipment -

Off-road Equipment - Grading equipment adjusted to not duplicate Site Preparation equipment, as the two phases overlap in time.

Off-road Equipment -

Off-road Equipment -

Grading - Construction material movement during Site Prep and Grading based on PD. Phases overlap, so showing all material movement under Grading.

Demolition - Per client, estimated 280 CY concrete & 75 CY asphalt exported from demo. Per Cal Recycle, asphalt/concrete construction debris is calculated at 2,400 lbs/cy = 426 Tons of Debris.

Vehicle Trips - Adjusted Trip Rate according to traffic study.

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	101.00
tblConstructionPhase	NumDays	200.00	276.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	4.00	45.00
tblConstructionPhase	NumDays	2.00	45.00
tblConstructionPhase	PhaseEndDate	10/15/2018	5/25/2018
tblConstructionPhase	PhaseEndDate	5/7/2018	5/25/2018
tblConstructionPhase	PhaseEndDate	6/16/2017	4/14/2017
tblConstructionPhase	PhaseStartDate	5/26/2018	1/5/2018
tblConstructionPhase	PhaseStartDate	4/15/2017	5/5/2017
tblConstructionPhase	PhaseStartDate	4/15/2017	2/13/2017
tblConstructionPhase	PhaseStartDate	2/11/2017	2/13/2017
tblGrading	AcresOfGrading	16.88	0.44

tblGrading	AcresOfGrading	22.50	0.00
tblGrading	MaterialExported	0.00	18,600.00
tblLandUse	LandUseSquareFeet	4,790.00	4,792.00
tblLandUse	LandUseSquareFeet	5,020.00	5,018.00
tblLandUse	LandUseSquareFeet	4,680.00	4,684.00
tblLandUse	LandUseSquareFeet	800.00	796.00
tblLandUse	LandUseSquareFeet	134,000.00	156,090.00
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.12	0.00
tblLandUse	LotAcreage	0.11	0.00
tblLandUse	LotAcreage	0.02	0.00
tblLandUse	LotAcreage	3.53	0.44
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	ST_TR	7.16	3.02
tblVehicleTrips	ST_TR	696.00	574.26
tblVehicleTrips	ST_TR	158.37	22.18
tblVehicleTrips	ST_TR	94.36	12.24
tblVehicleTrips	ST_TR	42.04	31.61
tblVehicleTrips	SU_TR	6.07	2.56
tblVehicleTrips	SU_TR	500.00	412.55
tblVehicleTrips	SU_TR	131.84	18.46
tblVehicleTrips	SU_TR	72.16	9.36
tblVehicleTrips	SU_TR	20.43	15.36
tblVehicleTrips	WD_TR	6.59	2.78
tblVehicleTrips	WD_TR	716.00	590.80
tblVehicleTrips	WD_TR	127.15	17.78
tblVehicleTrips	WD_TR	89.95	11.68
tblVehicleTrips	WD_TR	44.32	30.09

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	5.5752	56.2123	49.4673	0.0698	10.8992	2.5429	13.4421	5.6705	2.3394	8.0099	0.0000	6,973.745 0	6,973.745 0	1.0084	0.0000	6,994.920 9
2018	32.4052	21.6471	25.4502	0.0431	1.2938	1.2386	2.5324	0.3462	1.1998	1.5460	0.0000	3,795.014 4	3,795.014 4	0.4853	0.0000	3,805.205 3
Total	37.9804	77.8595	74.9175	0.1129	12.1930	3.7816	15.9745	6.0167	3.5392	9.5558	0.0000	10,768.75 94	10,768.75 94	1.4937	0.0000	10,800.12 62

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	5.5752	56.2123	49.4673	0.0698	10.8992	2.5429	13.4421	5.6705	2.3394	8.0099	0.0000	6,973.745 0	6,973.745 0	1.0084	0.0000	6,994.920 9
2018	32.4052	21.6471	25.4502	0.0431	1.2938	1.2386	2.5324	0.3462	1.1998	1.5460	0.0000	3,795.014 4	3,795.014 4	0.4853	0.0000	3,805.205 3
Total	37.9804	77.8595	74.9175	0.1129	12.1930	3.7816	15.9745	6.0167	3.5392	9.5558	0.0000	10,768.75 94	10,768.75 94	1.4937	0.0000	10,800.12 62

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548
Energy	0.0964	0.8547	0.5781	5.2600e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415
Mobile	3.4849	6.1659	33.2491	0.0565	4.0897	0.0772	4.1669	1.0925	0.0712	1.1636		4,588.7863	4,588.7863	0.1986		4,592.9571
Total	9.5382	7.1500	44.9760	0.0623	4.0897	0.2046	4.2943	1.0925	0.1986	1.2911	0.0000	5,660.2670	5,660.2670	0.2386	0.0193	5,671.2535

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548
Energy	0.0964	0.8547	0.5781	5.2600e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415
Mobile	3.4849	6.1659	33.2491	0.0565	4.0897	0.0772	4.1669	1.0925	0.0712	1.1636		4,588.7863	4,588.7863	0.1986		4,592.9571
Total	9.5382	7.1500	44.9760	0.0623	4.0897	0.2046	4.2943	1.0925	0.1986	1.2911	0.0000	5,660.2670	5,660.2670	0.2386	0.0193	5,671.2535

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/1/2017	2/10/2017	5	30	
2	Site Preparation	Site Preparation	2/13/2017	4/14/2017	5	45	
3	Grading	Grading	2/13/2017	4/14/2017	5	45	
4	Building Construction	Building Construction	5/5/2017	5/25/2018	5	276	
5	Architectural Coating	Architectural Coating	1/5/2018	5/25/2018	5	101	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.44

Acres of Paving: 0

Residential Indoor: 316,082; Residential Outdoor: 105,361; Non-Residential Indoor: 103,335; Non-Residential Outdoor: 34,445 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Generator Sets	1	8.00	84	0.74
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Graders	1	8.00	174	0.41
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	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	42.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	2,325.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	125.00	26.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	25.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3168	0.0000	0.3168	0.0480	0.0000	0.0480			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022		2,457.468 2	2,457.468 2	0.6235		2,470.562 0
Total	2.7216	26.5855	20.8712	0.0245	0.3168	1.6062	1.9230	0.0480	1.5022	1.5502		2,457.468 2	2,457.468 2	0.6235		2,470.562 0

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0361	0.3287	0.5349	1.0100e-003	0.0243	4.5900e-003	0.0289	6.6400e-003	4.2100e-003	0.0109		99.5692	99.5692	6.8000e-004		99.5833
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0401	0.0519	0.5030	1.1100e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		87.6327	87.6327	4.5800e-003		87.7289
Total	0.0762	0.3806	1.0379	2.1200e-003	0.1232	5.2900e-003	0.1285	0.0329	4.8600e-003	0.0377		187.2019	187.2019	5.2600e-003		187.3123

3.2 Demolition - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3168	0.0000	0.3168	0.0480	0.0000	0.0480			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022	0.0000	2,457.4682	2,457.4682	0.6235		2,470.5620
Total	2.7216	26.5855	20.8712	0.0245	0.3168	1.6062	1.9230	0.0480	1.5022	1.5502	0.0000	2,457.4682	2,457.4682	0.6235		2,470.5620

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0361	0.3287	0.5349	1.0100e-003	0.0243	4.5900e-003	0.0289	6.6400e-003	4.2100e-003	0.0109		99.5692	99.5692	6.8000e-004		99.5833
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0401	0.0519	0.5030	1.1100e-003	0.0989	7.0000e-004	0.0996	0.0262	6.5000e-004	0.0269		87.6327	87.6327	4.5800e-003		87.7289
Total	0.0762	0.3806	1.0379	2.1200e-003	0.1232	5.2900e-003	0.1285	0.0329	4.8600e-003	0.0377		187.2019	187.2019	5.2600e-003		187.3123

3.3 Site Preparation - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.2693	0.0000	5.2693	2.8965	0.0000	2.8965			0.0000			0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171		1.3067	1.3067		1.2022	1.2022		1,752.1239	1,752.1239	0.5369		1,763.3977
Total	2.3109	24.2288	15.9299	0.0171	5.2693	1.3067	6.5761	2.8965	1.2022	4.0987		1,752.1239	1,752.1239	0.5369		1,763.3977

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003		53.9870
Total	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003		53.9870

3.3 Site Preparation - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.2693	0.0000	5.2693	2.8965	0.0000	2.8965			0.0000			0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171		1.3067	1.3067		1.2022	1.2022	0.0000	1,752.1239	1,752.1239	0.5369		1,763.3977
Total	2.3109	24.2288	15.9299	0.0171	5.2693	1.3067	6.5761	2.8965	1.2022	4.0987	0.0000	1,752.1239	1,752.1239	0.5369		1,763.3977

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003		53.9870
Total	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003		53.9870

3.4 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	lb/day										lb/day					
Fugitive Dust					4.6124	0.0000	4.6124	2.4967	0.0000	2.4967			0.0000			0.0000
Off-Road	1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808		1,439.1894	1,439.1894	0.4410		1,448.4496
Total	1.8844	19.7889	13.1786	0.0141	4.6124	1.0661	5.6785	2.4967	0.9808	3.4776		1,439.1894	1,439.1894	0.4410		1,448.4496

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.3305	12.1308	19.7397	0.0372	0.8958	0.1692	1.0650	0.2451	0.1555	0.4006		3,674.5760	3,674.5760	0.0249		3,675.0995
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003		53.9870
Total	1.3552	12.1628	20.0492	0.0379	0.9566	0.1696	1.1263	0.2612	0.1559	0.4171		3,728.5039	3,728.5039	0.0278		3,729.0865

3.4 Grading - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6124	0.0000	4.6124	2.4967	0.0000	2.4967			0.0000			0.0000
Off-Road	1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496
Total	1.8844	19.7889	13.1786	0.0141	4.6124	1.0661	5.6785	2.4967	0.9808	3.4776	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.3305	12.1308	19.7397	0.0372	0.8958	0.1692	1.0650	0.2451	0.1555	0.4006		3,674.5760	3,674.5760	0.0249		3,675.0995
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0247	0.0320	0.3096	6.8000e-004	0.0609	4.3000e-004	0.0613	0.0161	4.0000e-004	0.0165		53.9278	53.9278	2.8200e-003		53.9870
Total	1.3552	12.1628	20.0492	0.0379	0.9566	0.1696	1.1263	0.2612	0.1559	0.4171		3,728.5039	3,728.5039	0.0278		3,729.0865

3.5 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	lb/day										lb/day					
Off-Road	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497
Total	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3533	1.9813	4.9590	5.4100e-003	0.1528	0.0293	0.1820	0.0435	0.0269	0.0704		529.0333	529.0333	4.1100e-003		529.1196
Worker	0.3859	0.4993	4.8367	0.0107	0.9509	6.7500e-003	0.9576	0.2522	6.2300e-003	0.2585		842.6225	842.6225	0.0440		843.5473
Total	0.7391	2.4806	9.7958	0.0161	1.1036	0.0360	1.1397	0.2957	0.0331	0.3288		1,371.6558	1,371.6558	0.0482		1,372.6669

3.5 Building Construction - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823	0.0000	2,034.2860	2,034.2860	0.4268		2,043.2497
Total	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823	0.0000	2,034.2860	2,034.2860	0.4268		2,043.2497

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3533	1.9813	4.9590	5.4100e-003	0.1528	0.0293	0.1820	0.0435	0.0269	0.0704		529.0333	529.0333	4.1100e-003		529.1196
Worker	0.3859	0.4993	4.8367	0.0107	0.9509	6.7500e-003	0.9576	0.2522	6.2300e-003	0.2585		842.6225	842.6225	0.0440		843.5473
Total	0.7391	2.4806	9.7958	0.0161	1.1036	0.0360	1.1397	0.2957	0.0331	0.3288		1,371.6558	1,371.6558	0.0482		1,372.6669

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172		2,021.4136	2,021.4136	0.4059		2,029.9373
Total	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172		2,021.4136	2,021.4136	0.4059		2,029.9373

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2878	1.7848	4.5674	5.3800e-003	0.1527	0.0269	0.1796	0.0435	0.0247	0.0682		519.2505	519.2505	4.0100e-003		519.3347
Worker	0.3428	0.4494	4.3274	0.0107	0.9509	6.6200e-003	0.9575	0.2522	6.1200e-003	0.2584		810.7515	810.7515	0.0405		811.6026
Total	0.6306	2.2342	8.8949	0.0160	1.1036	0.0335	1.1371	0.2957	0.0308	0.3266		1,330.0020	1,330.0020	0.0445		1,330.9373

3.5 Building Construction - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172	0.0000	2,021.4136	2,021.4136	0.4059		2,029.9373
Total	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172	0.0000	2,021.4136	2,021.4136	0.4059		2,029.9373

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2878	1.7848	4.5674	5.3800e-003	0.1527	0.0269	0.1796	0.0435	0.0247	0.0682		519.2505	519.2505	4.0100e-003		519.3347
Worker	0.3428	0.4494	4.3274	0.0107	0.9509	6.6200e-003	0.9575	0.2522	6.1200e-003	0.2584		810.7515	810.7515	0.0405		811.6026
Total	0.6306	2.2342	8.8949	0.0160	1.1036	0.0335	1.1371	0.2957	0.0308	0.3266		1,330.0020	1,330.0020	0.0445		1,330.9373

3.6 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	lb/day										lb/day					
Archit. Coating	28.8248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102
Total	29.1234	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.0102

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.0899	0.8655	2.1300e-003	0.1902	1.3200e-003	0.1915	0.0505	1.2200e-003	0.0517		162.1503	162.1503	8.1000e-003		162.3205
Total	0.0686	0.0899	0.8655	2.1300e-003	0.1902	1.3200e-003	0.1915	0.0505	1.2200e-003	0.0517		162.1503	162.1503	8.1000e-003		162.3205

3.6 Architectural Coating - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.8248					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102
Total	29.1234	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.0102

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0686	0.0899	0.8655	2.1300e-003	0.1902	1.3200e-003	0.1915	0.0505	1.2200e-003	0.0517		162.1503	162.1503	8.1000e-003		162.3205
Total	0.0686	0.0899	0.8655	2.1300e-003	0.1902	1.3200e-003	0.1915	0.0505	1.2200e-003	0.0517		162.1503	162.1503	8.1000e-003		162.3205

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4849	6.1659	33.2491	0.0565	4.0897	0.0772	4.1669	1.0925	0.0712	1.1636		4,588.786 3	4,588.786 3	0.1986		4,592.957 1
Unmitigated	3.4849	6.1659	33.2491	0.0565	4.0897	0.0772	4.1669	1.0925	0.0712	1.1636		4,588.786 3	4,588.786 3	0.1986		4,592.957 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	372.52	404.68	343.04	956,909	956,909
Enclosed Parking with Elevator	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	472.64	459.41	330.04	531,388	531,388
High Turnover (Sit Down Restaurant)	83.21	103.80	86.39	76,958	76,958
Quality Restaurant	58.63	61.44	46.99	53,150	53,150
Strip Mall	144.13	151.41	73.57	166,120	166,120
Total	1,131.14	1,180.75	880.03	1,784,526	1,784,526

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Enclosed Parking with Elevator	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	10.00	5.00	6.50	1.50	79.50	19.00	51	37	12
High Turnover (Sit Down	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Quality Restaurant	10.00	5.00	6.50	12.00	69.00	19.00	38	18	44
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504263	0.068212	0.178684	0.146863	0.044671	0.006294	0.020946	0.016568	0.002299	0.002275	0.006187	0.000564	0.002174

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
	lb/day										lb/day					
NaturalGas Mitigated	0.0964	0.8547	0.5781	5.2600e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415
NaturalGas Unmitigated	0.0964	0.8547	0.5781	5.2600e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant w/o Drive Thru	394.358	4.2500e-003	0.0387	0.0325	2.3000e-004		2.9400e-003	2.9400e-003		2.9400e-003	2.9400e-003		46.3951	46.3951	8.9000e-004	8.5000e-004	46.6774
High Turnover (Sit Down Restaurant)	2320.57	0.0250	0.2275	0.1911	1.3700e-003		0.0173	0.0173		0.0173	0.0173		273.0081	273.0081	5.2300e-003	5.0100e-003	274.6696
Quality Restaurant	2486.04	0.0268	0.2437	0.2047	1.4600e-003		0.0185	0.0185		0.0185	0.0185		292.4754	292.4754	5.6100e-003	5.3600e-003	294.2554
Strip Mall	74.1775	8.0000e-004	7.2700e-003	6.1100e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		8.7268	8.7268	1.7000e-004	1.6000e-004	8.7799
Apartments Mid Rise	3662.96	0.0395	0.3376	0.1437	2.1500e-003		0.0273	0.0273		0.0273	0.0273		430.9367	430.9367	8.2600e-003	7.9000e-003	433.5593
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0964	0.8547	0.5781	5.2500e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant w/o Drive Thru	0.394358	4.2500e-003	0.0387	0.0325	2.3000e-004		2.9400e-003	2.9400e-003		2.9400e-003	2.9400e-003		46.3951	46.3951	8.9000e-004	8.5000e-004	46.6774
High Turnover (Sit Down Restaurant)	2.32057	0.0250	0.2275	0.1911	1.3700e-003		0.0173	0.0173		0.0173	0.0173		273.0081	273.0081	5.2300e-003	5.0100e-003	274.6696
Quality Restaurant	2.48604	0.0268	0.2437	0.2047	1.4600e-003		0.0185	0.0185		0.0185	0.0185		292.4754	292.4754	5.6100e-003	5.3600e-003	294.2554
Strip Mall	0.0741775	8.0000e-004	7.2700e-003	6.1100e-003	4.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004		8.7268	8.7268	1.7000e-004	1.6000e-004	8.7799
Apartments Mid Rise	3.66296	0.0395	0.3376	0.1437	2.1500e-003		0.0273	0.0273		0.0273	0.0273		430.9367	430.9367	8.2600e-003	7.9000e-003	433.5593
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0964	0.8547	0.5781	5.2500e-003		0.0666	0.0666		0.0666	0.0666		1,051.5420	1,051.5420	0.0202	0.0193	1,057.9415

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548
Unmitigated	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7976					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3447	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608		19.9387	19.9387	0.0198		20.3548
Total	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7976					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3447	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608		19.9387	19.9387	0.0198		20.3548
Total	5.9569	0.1294	11.1488	5.8000e-004		0.0608	0.0608		0.0608	0.0608	0.0000	19.9387	19.9387	0.0198	0.0000	20.3548

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Yamane Existing Site
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	6.09	1000sqft	0.14	6,087.00	0
High Turnover (Sit Down Restaurant)	1.20	1000sqft	0.03	1,200.00	0
Health Club	2.70	1000sqft	0.06	2,700.00	0
General Office Building	2.70	1000sqft	0.00	2,700.00	0
Apartments Low Rise	1.00	Dwelling Unit	0.06	1,000.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2015
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Land Use - Office buildings are on second floor of commercial structure and do not represent additional acreage.

Construction Phase - Considering existing operations only, zeroing out construction.

Vehicle Trips - Operational Mobile - Adjusted trip rate for commercial services based on traffic study.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	6,090.00	6,087.00
tblLandUse	LotAcreage	0.06	0.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblVehicleTrips	ST_TR	42.04	16.50
tblVehicleTrips	SU_TR	20.43	7.85
tblVehicleTrips	WD_TR	44.32	17.40

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0633	1.3000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0172	0.0172	2.0000e-005	0.0000	0.0176
Energy	2.1700e-003	0.0197	0.0163	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	81.4537	81.4537	3.3600e-003	1.0000e-003	81.8352
Mobile	0.2294	0.3411	1.8211	2.4200e-003	0.1625	4.1500e-003	0.1667	0.0435	3.8100e-003	0.0473	0.0000	195.0423	195.0423	0.0102	0.0000	195.2560
Waste						0.0000	0.0000		0.0000	0.0000	7.9227	0.0000	7.9227	0.4682	0.0000	17.7554
Water						0.0000	0.0000		0.0000	0.0000	0.5378	2.7147	3.2525	1.9800e-003	1.2000e-003	3.6653
Total	0.2948	0.3609	1.8480	2.5400e-003	0.1625	5.7100e-003	0.1682	0.0435	5.3700e-003	0.0489	8.4605	279.2279	287.6884	0.4838	2.2000e-003	298.5294

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0633	1.3000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0172	0.0172	2.0000e-005	0.0000	0.0176
Energy	2.1700e-003	0.0197	0.0163	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	81.4537	81.4537	3.3600e-003	1.0000e-003	81.8352
Mobile	0.2294	0.3411	1.8211	2.4200e-003	0.1625	4.1500e-003	0.1667	0.0435	3.8100e-003	0.0473	0.0000	195.0423	195.0423	0.0102	0.0000	195.2560
Waste						0.0000	0.0000		0.0000	0.0000	7.9227	0.0000	7.9227	0.4682	0.0000	17.7554
Water						0.0000	0.0000		0.0000	0.0000	0.5378	2.7147	3.2525	1.9900e-003	1.2000e-003	3.6659
Total	0.2948	0.3609	1.8480	2.5400e-003	0.1625	5.7100e-003	0.1682	0.0435	5.3700e-003	0.0489	8.4605	279.2279	287.6884	0.4838	2.2000e-003	298.5300

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/1/2017	1/13/2017	5	10	

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	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	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	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.0200e-003	0.0524	0.0429	6.0000e-005		3.6300e-003	3.6300e-003		3.4600e-003	3.4600e-003	0.0000	5.3697	5.3697	1.0600e-003	0.0000	5.3919
Total	6.0200e-003	0.0524	0.0429	6.0000e-005		3.6300e-003	3.6300e-003		3.4600e-003	3.4600e-003	0.0000	5.3697	5.3697	1.0600e-003	0.0000	5.3919

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	1.5000e-004	1.8000e-004	1.8700e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3148	0.3148	2.0000e-005	0.0000	0.3151
Total	1.5000e-004	1.8000e-004	1.8700e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3148	0.3148	2.0000e-005	0.0000	0.3151

3.2 Demolition - 2017

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	6.0200e-003	0.0524	0.0429	6.0000e-005		3.6300e-003	3.6300e-003		3.4600e-003	3.4600e-003	0.0000	5.3697	5.3697	1.0600e-003	0.0000	5.3919
Total	6.0200e-003	0.0524	0.0429	6.0000e-005		3.6300e-003	3.6300e-003		3.4600e-003	3.4600e-003	0.0000	5.3697	5.3697	1.0600e-003	0.0000	5.3919

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	1.5000e-004	1.8000e-004	1.8700e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3148	0.3148	2.0000e-005	0.0000	0.3151
Total	1.5000e-004	1.8000e-004	1.8700e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3148	0.3148	2.0000e-005	0.0000	0.3151

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	0.2294	0.3411	1.8211	2.4200e-003	0.1625	4.1500e-003	0.1667	0.0435	3.8100e-003	0.0473	0.0000	195.0423	195.0423	0.0102	0.0000	195.2560
Unmitigated	0.2294	0.3411	1.8211	2.4200e-003	0.1625	4.1500e-003	0.1667	0.0435	3.8100e-003	0.0473	0.0000	195.0423	195.0423	0.0102	0.0000	195.2560

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6.59	7.16	6.07	16,929	16,929
General Office Building	29.73	6.40	2.65	46,518	46,518
Health Club	88.91	56.35	72.17	113,069	113,069
High Turnover (Sit Down Restaurant)	152.58	190.04	158.21	141,052	141,052
Strip Mall	105.97	100.49	47.81	119,125	119,125
Total	383.77	360.44	286.90	436,693	436,693

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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504472	0.068177	0.177914	0.148798	0.045219	0.006392	0.019958	0.015471	0.002301	0.002330	0.006201	0.000579	0.002187

5.0 Energy Detail

2.4 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	59.9983	59.9983	2.9500e-003	6.1000e-004	60.2492
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.9983	59.9983	2.9500e-003	6.1000e-004	60.2492
NaturalGas Mitigated	2.1700e-003	0.0197	0.0163	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	21.4554	21.4554	4.1000e-004	3.9000e-004	21.5860
NaturalGas Unmitigated	2.1700e-003	0.0197	0.0163	1.2000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	21.4554	21.4554	4.1000e-004	3.9000e-004	21.5860

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					
Health Club	99981	5.4000e-004	4.9000e-003	4.1200e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3354	5.3354	1.0000e-004	1.0000e-004	5.3678
High Turnover (Sit Down Restaurant)	216996	1.1700e-003	0.0106	8.9400e-003	6.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	11.5797	11.5797	2.2000e-004	2.1000e-004	11.6502
Strip Mall	34391.5	1.9000e-004	1.6900e-003	1.4200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8353	1.8353	4.0000e-005	3.0000e-005	1.8464
Apartments Low Rise	13566.1	7.0000e-005	6.3000e-004	2.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7239	0.7239	1.0000e-005	1.0000e-005	0.7283
General Office Building	37125	2.0000e-004	1.8200e-003	1.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9811	1.9811	4.0000e-005	4.0000e-005	1.9932
Total		2.1700e-003	0.0197	0.0163	1.1000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	21.4554	21.4554	4.1000e-004	3.9000e-004	21.5860

5.2 Energy by Land Use - NaturalGas

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					
Health Club	99981	5.4000e-004	4.9000e-003	4.1200e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.3354	5.3354	1.0000e-004	1.0000e-004	5.3678
High Turnover (Sit Down Restaurant)	216996	1.1700e-003	0.0106	8.9400e-003	6.0000e-005		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	11.5797	11.5797	2.2000e-004	2.1000e-004	11.6502
Strip Mall	34391.5	1.9000e-004	1.6900e-003	1.4200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8353	1.8353	4.0000e-005	3.0000e-005	1.8464
Apartments Low Rise	13566.1	7.0000e-005	6.3000e-004	2.7000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7239	0.7239	1.0000e-005	1.0000e-005	0.7283
General Office Building	37125	2.0000e-004	1.8200e-003	1.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9811	1.9811	4.0000e-005	4.0000e-005	1.9932
Total		2.1700e-003	0.0197	0.0163	1.1000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	21.4554	21.4554	4.1000e-004	3.9000e-004	21.5860

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3790.28	1.0149	5.0000e-005	1.0000e-005	1.0191
General Office Building	43308	11.5962	5.7000e-004	1.2000e-004	11.6447
Health Club	44712	11.9721	5.9000e-004	1.2000e-004	12.0222
High Turnover (Sit Down Restaurant)	53316	14.2759	7.0000e-004	1.5000e-004	14.3356
Strip Mall	78948.4	21.1392	1.0400e-003	2.1000e-004	21.2277
Total		59.9983	2.9500e-003	6.1000e-004	60.2492

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	3790.28	1.0149	5.0000e-005	1.0000e-005	1.0191
General Office Building	43308	11.5962	5.7000e-004	1.2000e-004	11.6447
Health Club	44712	11.9721	5.9000e-004	1.2000e-004	12.0222
High Turnover (Sit Down Restaurant)	53316	14.2759	7.0000e-004	1.5000e-004	14.3356
Strip Mall	78948.4	21.1392	1.0400e-003	2.1000e-004	21.2277
Total		59.9983	2.9500e-003	6.1000e-004	60.2492

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	0.0633	1.3000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0172	0.0172	2.0000e-005	0.0000	0.0176
Unmitigated	0.0633	1.3000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0172	0.0172	2.0000e-005	0.0000	0.0176

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	9.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0535					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e-004	1.3000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0172	0.0172	2.0000e-005	0.0000	0.0176
Total	0.0633	1.3000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0172	0.0172	2.0000e-005	0.0000	0.0176

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	9.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0535					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.5000e-004	1.3000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0172	0.0172	2.0000e-005	0.0000	0.0176
Total	0.0633	1.3000e-004	0.0107	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0172	0.0172	2.0000e-005	0.0000	0.0176

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.2525	1.9900e-003	1.2000e-003	3.6659
Unmitigated	3.2525	1.9800e-003	1.2000e-003	3.6653

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.065154 / 0.0410754	0.1485	9.0000e-005	5.0000e-005	0.1662
General Office Building	0.479881 / 0.294121	1.0857	6.3000e-004	3.8000e-004	1.2162
Health Club	0.159686 / 0.0978724	0.3613	2.1000e-004	1.3000e-004	0.4047
High Turnover (Sit Down Restaurant)	0.36424 / 0.0232494	0.6366	4.7000e-004	2.9000e-004	0.7349
Strip Mall	0.451102 / 0.276482	1.0205	5.9000e-004	3.6000e-004	1.1433
Total		3.2525	1.9900e-003	1.2100e-003	3.6653

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.065154 / 0.0410754	0.1485	9.0000e-005	5.0000e-005	0.1662
General Office Building	0.479881 / 0.294121	1.0857	6.3000e-004	3.8000e-004	1.2164
Health Club	0.159686 / 0.0978724	0.3613	2.1000e-004	1.3000e-004	0.4048
High Turnover (Sit Down Restaurant)	0.36424 / 0.0232494	0.6366	4.7000e-004	2.9000e-004	0.7351
Strip Mall	0.451102 / 0.276482	1.0205	5.9000e-004	3.6000e-004	1.1435
Total		3.2525	1.9900e-003	1.2100e-003	3.6659

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	7.9227	0.4682	0.0000	17.7554
Mitigated	7.9227	0.4682	0.0000	17.7554

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0.46	0.0934	5.5200e-003	0.0000	0.2093
General Office Building	2.51	0.5095	0.0301	0.0000	1.1418
Health Club	15.39	3.1240	0.1846	0.0000	7.0012
High Turnover (Sit Down Restaurant)	14.28	2.8987	0.1713	0.0000	6.4962
Strip Mall	6.39	1.2971	0.0767	0.0000	2.9069
Total		7.9227	0.4682	0.0000	17.7554

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	0.46	0.0934	5.5200e-003	0.0000	0.2093
General Office Building	2.51	0.5095	0.0301	0.0000	1.1418
Health Club	15.39	3.1240	0.1846	0.0000	7.0012
High Turnover (Sit Down Restaurant)	14.28	2.8987	0.1713	0.0000	6.4962
Strip Mall	6.39	1.2971	0.0767	0.0000	2.9069
Total		7.9227	0.4682	0.0000	17.7554

9.0 Operational Offroad

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

10.0 Vegetation

Yamane Existing Site
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	6.09	1000sqft	0.14	6,087.00	0
High Turnover (Sit Down Restaurant)	1.20	1000sqft	0.03	1,200.00	0
Health Club	2.70	1000sqft	0.06	2,700.00	0
General Office Building	2.70	1000sqft	0.00	2,700.00	0
Apartments Low Rise	1.00	Dwelling Unit	0.06	1,000.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2015
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Land Use - Office buildings are on second floor of commercial structure and do not represent additional acreage.

Construction Phase - Considering existing operations only, zeroing out construction.

Vehicle Trips - Operational Mobile - Adjusted trip rate for commercial services based on traffic study.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	6,090.00	6,087.00
tblLandUse	LotAcreage	0.06	0.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblVehicleTrips	ST_TR	42.04	16.50
tblVehicleTrips	SU_TR	20.43	7.85
tblVehicleTrips	WD_TR	44.32	17.40

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547
Energy	0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3800e-003	130.3808
Mobile	1.6468	2.0083	11.3929	0.0165	1.0621	0.0261	1.0882	0.2837	0.0239	0.3076		1,466.2394	1,466.2394	0.0709		1,467.7276
Total	2.0062	2.1170	11.5674	0.0172	1.0621	0.0347	1.0969	0.2837	0.0326	0.3163	0.0000	1,595.9828	1,595.9828	0.0735	2.3800e-003	1,598.2632

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547
Energy	0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3800e-003	130.3808
Mobile	1.6468	2.0083	11.3929	0.0165	1.0621	0.0261	1.0882	0.2837	0.0239	0.3076		1,466.2394	1,466.2394	0.0709		1,467.7276
Total	2.0062	2.1170	11.5674	0.0172	1.0621	0.0347	1.0969	0.2837	0.0326	0.3163	0.0000	1,595.9828	1,595.9828	0.0735	2.3800e-003	1,598.2632

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/1/2017	1/13/2017	5	10	

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	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	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	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930		1,183.8131	1,183.8131	0.2333		1,188.7118
Total	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930		1,183.8131	1,183.8131	0.2333		1,188.7118

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0357	0.0322	0.4320	9.7000e-004	0.0761	5.4000e-004	0.0766	0.0202	5.0000e-004	0.0207		76.7899	76.7899	3.5200e-003		76.8639
Total	0.0357	0.0322	0.4320	9.7000e-004	0.0761	5.4000e-004	0.0766	0.0202	5.0000e-004	0.0207		76.7899	76.7899	3.5200e-003		76.8639

3.2 Demolition - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930	0.0000	1,183.8131	1,183.8131	0.2333		1,188.7118
Total	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930	0.0000	1,183.8131	1,183.8131	0.2333		1,188.7118

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0357	0.0322	0.4320	9.7000e-004	0.0761	5.4000e-004	0.0766	0.0202	5.0000e-004	0.0207		76.7899	76.7899	3.5200e-003		76.8639
Total	0.0357	0.0322	0.4320	9.7000e-004	0.0761	5.4000e-004	0.0766	0.0202	5.0000e-004	0.0207		76.7899	76.7899	3.5200e-003		76.8639

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6468	2.0083	11.3929	0.0165	1.0621	0.0261	1.0882	0.2837	0.0239	0.3076		1,466.2394	1,466.2394	0.0709		1,467.7276
Unmitigated	1.6468	2.0083	11.3929	0.0165	1.0621	0.0261	1.0882	0.2837	0.0239	0.3076		1,466.2394	1,466.2394	0.0709		1,467.7276

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6.59	7.16	6.07	16,929	16,929
General Office Building	29.73	6.40	2.65	46,518	46,518
Health Club	88.91	56.35	72.17	113,069	113,069
High Turnover (Sit Down Restaurant)	152.58	190.04	158.21	141,052	141,052
Strip Mall	105.97	100.49	47.81	119,125	119,125
Total	383.77	360.44	286.90	436,693	436,693

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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504472	0.068177	0.177914	0.148798	0.045219	0.006392	0.019958	0.015471	0.002301	0.002330	0.006201	0.000579	0.002187

5.0 Energy Detail

2.4 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	lb/day										lb/day					
NaturalGas Mitigated	0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3800e-003	130.3808
NaturalGas Unmitigated	0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3800e-003	130.3808

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Health Club	273.921	2.9500e-003	0.0269	0.0226	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.2260	32.2260	6.2000e-004	5.9000e-004	32.4221
High Turnover (Sit Down Restaurant)	594.51	6.4100e-003	0.0583	0.0490	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003		69.9423	69.9423	1.3400e-003	1.2800e-003	70.3680
Strip Mall	94.2234	1.0200e-003	9.2400e-003	7.7600e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		11.0851	11.0851	2.1000e-004	2.0000e-004	11.1526
Apartments Low Rise	37.1673	4.0000e-004	3.4300e-003	1.4600e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		4.3726	4.3726	8.0000e-005	8.0000e-005	4.3992
General Office Building	101.712	1.1000e-003	9.9700e-003	8.3800e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004		11.9662	11.9662	2.3000e-004	2.2000e-004	12.0390
Total		0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3700e-003	130.3808

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Health Club	0.273921	2.9500e-003	0.0269	0.0226	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.2260	32.2260	6.2000e-004	5.9000e-004	32.4221
High Turnover (Sit Down Restaurant)	0.59451	6.4100e-003	0.0583	0.0490	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003		69.9423	69.9423	1.3400e-003	1.2800e-003	70.3680
Strip Mall	0.0942234	1.0200e-003	9.2400e-003	7.7600e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		11.0851	11.0851	2.1000e-004	2.0000e-004	11.1526
Apartments Low Rise	0.0371673	4.0000e-004	3.4300e-003	1.4600e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		4.3726	4.3726	8.0000e-005	8.0000e-005	4.3992
General Office Building	0.101712	1.1000e-003	9.9700e-003	8.3800e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004		11.9662	11.9662	2.3000e-004	2.2000e-004	12.0390
Total		0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3700e-003	130.3808

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547
Unmitigated	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2929					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8200e-003	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.1513	0.1513	1.6000e-004		0.1547
Total	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2929					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8200e-003	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.1513	0.1513	1.6000e-004		0.1547
Total	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Yamane Existing Site
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	6.09	1000sqft	0.14	6,087.00	0
High Turnover (Sit Down Restaurant)	1.20	1000sqft	0.03	1,200.00	0
Health Club	2.70	1000sqft	0.06	2,700.00	0
General Office Building	2.70	1000sqft	0.00	2,700.00	0
Apartments Low Rise	1.00	Dwelling Unit	0.06	1,000.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2015
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	590.31	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Land Use - Office buildings are on second floor of commercial structure and do not represent additional acreage.

Construction Phase - Considering existing operations only, zeroing out construction.

Vehicle Trips - Operational Mobile - Adjusted trip rate for commercial services based on traffic study.

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	6,090.00	6,087.00
tblLandUse	LotAcreage	0.06	0.00
tblProjectCharacteristics	OperationalYear	2014	2015
tblVehicleTrips	ST_TR	42.04	16.50
tblVehicleTrips	SU_TR	20.43	7.85
tblVehicleTrips	WD_TR	44.32	17.40

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547
Energy	0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3800e-003	130.3808
Mobile	1.5587	2.2760	13.2832	0.0150	1.0621	0.0265	1.0886	0.2837	0.0243	0.3080		1,328.8578	1,328.8578	0.0709		1,330.3476
Total	1.9180	2.3848	13.4577	0.0156	1.0621	0.0351	1.0973	0.2837	0.0329	0.3166	0.0000	1,458.6012	1,458.6012	0.0736	2.3800e-003	1,460.8831

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547
Energy	0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3800e-003	130.3808
Mobile	1.5587	2.2760	13.2832	0.0150	1.0621	0.0265	1.0886	0.2837	0.0243	0.3080		1,328.8578	1,328.8578	0.0709		1,330.3476
Total	1.9180	2.3848	13.4577	0.0156	1.0621	0.0351	1.0973	0.2837	0.0329	0.3166	0.0000	1,458.6012	1,458.6012	0.0736	2.3800e-003	1,460.8831

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/1/2017	1/13/2017	5	10	

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	1.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	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	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930		1,183.8131	1,183.8131	0.2333		1,188.7118
Total	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930		1,183.8131	1,183.8131	0.2333		1,188.7118

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0309	0.0399	0.3869	8.5000e-004	0.0761	5.4000e-004	0.0766	0.0202	5.0000e-004	0.0207		67.4098	67.4098	3.5200e-003		67.4838
Total	0.0309	0.0399	0.3869	8.5000e-004	0.0761	5.4000e-004	0.0766	0.0202	5.0000e-004	0.0207		67.4098	67.4098	3.5200e-003		67.4838

3.2 Demolition - 2017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930	0.0000	1,183.8131	1,183.8131	0.2333		1,188.7118
Total	1.2049	10.4761	8.5825	0.0120		0.7266	0.7266		0.6930	0.6930	0.0000	1,183.8131	1,183.8131	0.2333		1,188.7118

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0309	0.0399	0.3869	8.5000e-004	0.0761	5.4000e-004	0.0766	0.0202	5.0000e-004	0.0207		67.4098	67.4098	3.5200e-003		67.4838
Total	0.0309	0.0399	0.3869	8.5000e-004	0.0761	5.4000e-004	0.0766	0.0202	5.0000e-004	0.0207		67.4098	67.4098	3.5200e-003		67.4838

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5587	2.2760	13.2832	0.0150	1.0621	0.0265	1.0886	0.2837	0.0243	0.3080		1,328.8578	1,328.8578	0.0709		1,330.3476
Unmitigated	1.5587	2.2760	13.2832	0.0150	1.0621	0.0265	1.0886	0.2837	0.0243	0.3080		1,328.8578	1,328.8578	0.0709		1,330.3476

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	6.59	7.16	6.07	16,929	16,929
General Office Building	29.73	6.40	2.65	46,518	46,518
Health Club	88.91	56.35	72.17	113,069	113,069
High Turnover (Sit Down Restaurant)	152.58	190.04	158.21	141,052	141,052
Strip Mall	105.97	100.49	47.81	119,125	119,125
Total	383.77	360.44	286.90	436,693	436,693

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
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.504472	0.068177	0.177914	0.148798	0.045219	0.006392	0.019958	0.015471	0.002301	0.002330	0.006201	0.000579	0.002187

5.0 Energy Detail

2.4 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
	lb/day										lb/day					
NaturalGas Mitigated	0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3800e-003	130.3808
NaturalGas Unmitigated	0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3800e-003	130.3808

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Health Club	273.921	2.9500e-003	0.0269	0.0226	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.2260	32.2260	6.2000e-004	5.9000e-004	32.4221
High Turnover (Sit Down Restaurant)	594.51	6.4100e-003	0.0583	0.0490	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003		69.9423	69.9423	1.3400e-003	1.2800e-003	70.3680
Strip Mall	94.2234	1.0200e-003	9.2400e-003	7.7600e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		11.0851	11.0851	2.1000e-004	2.0000e-004	11.1526
Apartments Low Rise	37.1673	4.0000e-004	3.4300e-003	1.4600e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		4.3726	4.3726	8.0000e-005	8.0000e-005	4.3992
General Office Building	101.712	1.1000e-003	9.9700e-003	8.3800e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004		11.9662	11.9662	2.3000e-004	2.2000e-004	12.0390
Total		0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3700e-003	130.3808

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Health Club	0.273921	2.9500e-003	0.0269	0.0226	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003		32.2260	32.2260	6.2000e-004	5.9000e-004	32.4221
High Turnover (Sit Down Restaurant)	0.59451	6.4100e-003	0.0583	0.0490	3.5000e-004		4.4300e-003	4.4300e-003		4.4300e-003	4.4300e-003		69.9423	69.9423	1.3400e-003	1.2800e-003	70.3680
Strip Mall	0.0942234	1.0200e-003	9.2400e-003	7.7600e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		11.0851	11.0851	2.1000e-004	2.0000e-004	11.1526
Apartments Low Rise	0.0371673	4.0000e-004	3.4300e-003	1.4600e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		4.3726	4.3726	8.0000e-005	8.0000e-005	4.3992
General Office Building	0.101712	1.1000e-003	9.9700e-003	8.3800e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004		11.9662	11.9662	2.3000e-004	2.2000e-004	12.0390
Total		0.0119	0.1078	0.0891	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003		129.5921	129.5921	2.4800e-003	2.3700e-003	130.3808

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547
Unmitigated	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2929					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8200e-003	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.1513	0.1513	1.6000e-004		0.1547
Total	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0518					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2929					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8200e-003	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004		0.1513	0.1513	1.6000e-004		0.1547
Total	0.3475	1.0000e-003	0.0854	0.0000		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	0.1513	0.1513	1.6000e-004	0.0000	0.1547

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation
