

Appendix G

Greenhouse Gas Modeling Data

DGS P Street Construction - Sacramento County, Annual

DGS P Street Construction
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	750.00	1000sqft	1.80	750,000.00	0
Day-Care Center	60.00	Student	0.08	3,391.37	0
Enclosed Parking with Elevator	50.00	Space	0.45	20,000.00	0
High Turnover (Sit Down Restaurant)	14.00	1000sqft	0.32	14,000.00	0
Strip Mall	10.00	1000sqft	0.23	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2021
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

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Project Characteristics - Construction to begin early 2018, operational in 2021.

Land Use - Strip mall considered to be CalEEMod equivalent of retail; high turnover restaurant considered to be CalEEMod equivalent of food court

Construction Phase - Phasing from CM

Off-road Equipment - Equipment from CM

Off-road Equipment - Equipment list from CM

Off-road Equipment - Equipment list from CM

Off-road Equipment - Equipment list from CM

Off-road Equipment - Equipment list from CM

Off-road Equipment - Equipment list from CM

Trips and VMT - 8,000 total haul truck trips; workers would range from 25-50 during initial phases (assumed more conservative of range) and up to 590 during peak of construction (considered building construction phase).

Demolition - 9,000 CY of debris anticipated, convert to tons by multiplying by .5

Grading -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	220.00	756.00
tblConstructionPhase	NumDays	6.00	10.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	3.00	10.00
tblGrading	AcresOfGrading	5.00	3.00
tblGrading	AcresOfGrading	15.00	4.50
tblLandUse	LotAcreage	17.22	1.80
tblOffRoadEquipment	HorsePower	367.00	63.00
tblOffRoadEquipment	LoadFactor	0.48	0.31

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tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblProjectCharacteristics	OperationalYear	2018	2021
tblTripsAndVMT	HaulingTripNumber	0.00	7,555.00
tblTripsAndVMT	WorkerTripNumber	13.00	50.00
tblTripsAndVMT	WorkerTripNumber	8.00	50.00

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tblTripsAndVMT	WorkerTripNumber	10.00	50.00
tblTripsAndVMT	WorkerTripNumber	259.00	590.00
tblTripsAndVMT	WorkerTripNumber	15.00	50.00
tblTripsAndVMT	WorkerTripNumber	52.00	50.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	1.2214	10.1194	8.2416	0.0204	0.7115	0.4036	1.1151	0.1928	0.3798	0.5727	0.0000	1,860.3918	1,860.3918	0.3013	0.0000	1,867.9254
2019	1.2067	9.8207	8.5859	0.0224	0.7189	0.3720	1.0909	0.1930	0.3507	0.5438	0.0000	2,028.6486	2,028.6486	0.3169	0.0000	2,036.5705
2020	1.0982	8.9178	8.1392	0.0223	0.7214	0.3239	1.0453	0.1937	0.3052	0.4990	0.0000	1,999.5588	1,999.5588	0.3119	0.0000	2,007.3551
2021	3.6704	0.4987	0.5338	1.3200e-003	0.0862	0.0201	0.1062	0.0221	0.0190	0.0410	0.0000	117.7363	117.7363	0.0189	0.0000	118.2095
Maximum	3.6704	10.1194	8.5859	0.0224	0.7214	0.4036	1.1151	0.1937	0.3798	0.5727	0.0000	2,028.6486	2,028.6486	0.3169	0.0000	2,036.5705

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2.1 Overall Construction

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					
2018	1.2214	6.3588	8.2416	0.0204	0.7115	0.4036	1.1151	0.1928	0.3798	0.5727	0.0000	1,860.3907	1,860.3907	0.3013	0.0000	1,867.9242
2019	1.2067	6.3025	8.5859	0.0224	0.7189	0.3720	1.0909	0.1930	0.3507	0.5438	0.0000	2,028.6474	2,028.6474	0.3169	0.0000	2,036.5693
2020	1.0982	5.7977	8.1392	0.0223	0.7214	0.3239	1.0453	0.1937	0.3052	0.4990	0.0000	1,999.5576	1,999.5576	0.3119	0.0000	2,007.3539
2021	3.6704	0.3780	0.5338	1.3200e-003	0.0862	0.0201	0.1062	0.0221	0.0190	0.0410	0.0000	117.7362	117.7362	0.0189	0.0000	118.2094
Maximum	3.6704	6.3588	8.5859	0.0224	0.7214	0.4036	1.1151	0.1937	0.3798	0.5727	0.0000	2,028.6474	2,028.6474	0.3169	0.0000	2,036.5693

	ROG	NOx	CO	SO2	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	35.83	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	2.1330	1.4411
2	4-1-2018	6-30-2018	3.0402	2.0263
3	7-1-2018	9-30-2018	3.0736	2.0485
4	10-1-2018	12-31-2018	3.0999	2.0748
5	1-1-2019	3-31-2019	2.7292	1.8627
6	4-1-2019	6-30-2019	2.7373	1.8611
7	7-1-2019	9-30-2019	2.7674	1.8816
8	10-1-2019	12-31-2019	2.7899	1.9041

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9	1-1-2020	3-31-2020	2.4961	1.7220
10	4-1-2020	6-30-2020	2.4782	1.7041
11	7-1-2020	9-30-2020	2.5055	1.7229
12	10-1-2020	12-31-2020	2.5235	1.7410
13	1-1-2021	3-31-2021	4.2007	4.0713
		Highest	4.2007	4.0713

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234
Energy	0.0672	0.6112	0.5134	3.6700e-003		0.0465	0.0465		0.0465	0.0465	0.0000	3,864.6753	3,864.6753	0.1699	0.0447	3,882.2490
Mobile	2.4448	9.6803	24.7818	0.0694	5.7057	0.0645	5.7701	1.5300	0.0603	1.5903	0.0000	6,380.5044	6,380.5044	0.3347	0.0000	6,388.8715
Waste						0.0000	0.0000		0.0000	0.0000	179.7587	0.0000	179.7587	10.6234	0.0000	445.3444
Water						0.0000	0.0000		0.0000	0.0000	48.9789	262.2895	311.2684	0.1815	0.1092	348.3404
Total	5.9110	10.2916	25.3065	0.0731	5.7057	0.1109	5.8166	1.5300	0.1068	1.6368	228.7375	10,507.4912	10,736.2287	11.3096	0.1539	11,064.8287

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234
Energy	0.0672	0.6112	0.5134	3.6700e-003		0.0465	0.0465		0.0465	0.0465	0.0000	3,864.6753	3,864.6753	0.1699	0.0447	3,882.2490
Mobile	2.4448	9.6803	24.7818	0.0694	5.7057	0.0645	5.7701	1.5300	0.0603	1.5903	0.0000	6,380.5044	6,380.5044	0.3347	0.0000	6,388.8715
Waste						0.0000	0.0000		0.0000	0.0000	179.7587	0.0000	179.7587	10.6234	0.0000	445.3444
Water						0.0000	0.0000		0.0000	0.0000	48.9789	262.2895	311.2684	0.1815	0.1092	348.3404
Total	5.9110	10.2916	25.3065	0.0731	5.7057	0.1109	5.8166	1.5300	0.1068	1.6368	228.7375	10,507.4912	10,736.2287	11.3096	0.1539	11,064.8287

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/26/2018	5	20	
2	Site Preparation	Site Preparation	1/27/2018	2/9/2018	5	10	
3	Grading	Grading	2/10/2018	2/23/2018	5	10	
4	Building Construction	Building Construction	2/24/2018	1/18/2021	5	756	
5	Paving	Paving	1/19/2021	2/15/2021	5	20	
6	Architectural Coating	Architectural Coating	2/16/2021	3/15/2021	5	20	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0.45

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,166,087; Non-Residential Outdoor: 388,696; Striped Parking Area: 1,200 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Scrapers	1	8.00	367	0.48
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Excavators	2	8.00	158	0.38
Site Preparation	Graders	1	8.00	187	0.41
Demolition	Off-Highway Trucks	3	8.00	402	0.38
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Scrapers	2	8.00	63	0.31
Building Construction	Off-Highway Trucks	3	8.00	402	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	7.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Excavators	2	8.00	158	0.38
Building Construction	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	3	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	50.00	0.00	445.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	50.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	50.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	590.00	131.00	7,555.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	50.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0502	0.0000	0.0502	7.6000e-003	0.0000	7.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0540	0.5569	0.3436	7.4000e-004		0.0265	0.0265		0.0246	0.0246	0.0000	67.5338	67.5338	0.0198	0.0000	68.0279
Total	0.0540	0.5569	0.3436	7.4000e-004	0.0502	0.0265	0.0767	7.6000e-003	0.0246	0.0322	0.0000	67.5338	67.5338	0.0198	0.0000	68.0279

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3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1400e-003	0.0736	0.0186	1.8000e-004	3.7600e-003	3.2000e-004	4.0800e-003	1.0300e-003	3.1000e-004	1.3400e-003	0.0000	17.3939	17.3939	1.0400e-003	0.0000	17.4200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	1.6100e-003	0.0171	4.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	3.0000e-005	1.0000e-003	0.0000	3.4749	3.4749	1.2000e-004	0.0000	3.4779
Total	4.3700e-003	0.0753	0.0358	2.2000e-004	7.4300e-003	3.5000e-004	7.7800e-003	2.0100e-003	3.4000e-004	2.3400e-003	0.0000	20.8689	20.8689	1.1600e-003	0.0000	20.8979

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					0.0502	0.0000	0.0502	7.6000e-003	0.0000	7.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0540	0.2436	0.3436	7.4000e-004		0.0265	0.0265		0.0246	0.0246	0.0000	67.5337	67.5337	0.0198	0.0000	68.0279
Total	0.0540	0.2436	0.3436	7.4000e-004	0.0502	0.0265	0.0767	7.6000e-003	0.0246	0.0322	0.0000	67.5337	67.5337	0.0198	0.0000	68.0279

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3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1400e-003	0.0736	0.0186	1.8000e-004	3.7600e-003	3.2000e-004	4.0800e-003	1.0300e-003	3.1000e-004	1.3400e-003	0.0000	17.3939	17.3939	1.0400e-003	0.0000	17.4200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	1.6100e-003	0.0171	4.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	3.0000e-005	1.0000e-003	0.0000	3.4749	3.4749	1.2000e-004	0.0000	3.4779
Total	4.3700e-003	0.0753	0.0358	2.2000e-004	7.4300e-003	3.5000e-004	7.7800e-003	2.0100e-003	3.4000e-004	2.3400e-003	0.0000	20.8689	20.8689	1.1600e-003	0.0000	20.8979

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-003	0.1181	0.0637	1.2000e-004		4.7700e-003	4.7700e-003		4.3900e-003	4.3900e-003	0.0000	11.1965	11.1965	3.4900e-003	0.0000	11.2837
Total	9.5000e-003	0.1181	0.0637	1.2000e-004	2.3900e-003	4.7700e-003	7.1600e-003	2.6000e-004	4.3900e-003	4.6500e-003	0.0000	11.1965	11.1965	3.4900e-003	0.0000	11.2837

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3.3 Site Preparation - 2018

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	1.1100e-003	8.1000e-004	8.5700e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7375	1.7375	6.0000e-005	0.0000	1.7389
Total	1.1100e-003	8.1000e-004	8.5700e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7375	1.7375	6.0000e-005	0.0000	1.7389

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-003	0.1181	0.0637	1.2000e-004		4.7700e-003	4.7700e-003		4.3900e-003	4.3900e-003	0.0000	11.1965	11.1965	3.4900e-003	0.0000	11.2837
Total	9.5000e-003	0.1181	0.0637	1.2000e-004	2.3900e-003	4.7700e-003	7.1600e-003	2.6000e-004	4.3900e-003	4.6500e-003	0.0000	11.1965	11.1965	3.4900e-003	0.0000	11.2837

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3.3 Site Preparation - 2018

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	1.1100e-003	8.1000e-004	8.5700e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7375	1.7375	6.0000e-005	0.0000	1.7389
Total	1.1100e-003	8.1000e-004	8.5700e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7375	1.7375	6.0000e-005	0.0000	1.7389

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0317	0.0000	0.0317	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1342	0.0562	1.1000e-004		6.9000e-003	6.9000e-003		6.3400e-003	6.3400e-003	0.0000	9.7531	9.7531	3.0400e-003	0.0000	9.8290
Total	0.0121	0.1342	0.0562	1.1000e-004	0.0317	6.9000e-003	0.0386	0.0167	6.3400e-003	0.0231	0.0000	9.7531	9.7531	3.0400e-003	0.0000	9.8290

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3.4 Grading - 2018

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	1.1100e-003	8.1000e-004	8.5700e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7375	1.7375	6.0000e-005	0.0000	1.7389
Total	1.1100e-003	8.1000e-004	8.5700e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7375	1.7375	6.0000e-005	0.0000	1.7389

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					0.0317	0.0000	0.0317	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1342	0.0562	1.1000e-004		6.9000e-003	6.9000e-003		6.3400e-003	6.3400e-003	0.0000	9.7531	9.7531	3.0400e-003	0.0000	9.8290
Total	0.0121	0.1342	0.0562	1.1000e-004	0.0317	6.9000e-003	0.0386	0.0167	6.3400e-003	0.0231	0.0000	9.7531	9.7531	3.0400e-003	0.0000	9.8290

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3.4 Grading - 2018

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	1.1100e-003	8.1000e-004	8.5700e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7375	1.7375	6.0000e-005	0.0000	1.7389
Total	1.1100e-003	8.1000e-004	8.5700e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.7375	1.7375	6.0000e-005	0.0000	1.7389

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	0.7596	6.7782	4.7758	9.6800e-003		0.3450	0.3450		0.3251	0.3251	0.0000	861.0704	861.0704	0.2307	0.0000	866.8387
Total	0.7596	6.7782	4.7758	9.6800e-003		0.3450	0.3450		0.3251	0.3251	0.0000	861.0704	861.0704	0.2307	0.0000	866.8387

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3.5 Building Construction - 2018

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	0.0106	0.3655	0.0925	8.9000e-004	0.0526	1.6000e-003	0.0542	0.0135	1.5300e-003	0.0150	0.0000	86.3262	86.3262	5.1800e-003	0.0000	86.4556
Vendor	0.0787	1.8791	0.6223	3.6200e-003	0.0847	0.0148	0.0995	0.0245	0.0142	0.0386	0.0000	347.0733	347.0733	0.0224	0.0000	347.6338
Worker	0.2903	0.2106	2.2347	5.0200e-003	0.4788	3.6400e-003	0.4825	0.1274	3.3600e-003	0.1307	0.0000	453.0948	453.0948	0.0154	0.0000	453.4809
Total	0.3796	2.4552	2.9494	9.5300e-003	0.6161	0.0200	0.6361	0.1653	0.0191	0.1843	0.0000	886.4942	886.4942	0.0430	0.0000	887.5703

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	0.7596	3.3308	4.7757	9.6800e-003		0.3450	0.3450		0.3251	0.3251	0.0000	861.0694	861.0694	0.2307	0.0000	866.8377
Total	0.7596	3.3308	4.7757	9.6800e-003		0.3450	0.3450		0.3251	0.3251	0.0000	861.0694	861.0694	0.2307	0.0000	866.8377

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3.5 Building Construction - 2018

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	0.0106	0.3655	0.0925	8.9000e-004	0.0526	1.6000e-003	0.0542	0.0135	1.5300e-003	0.0150	0.0000	86.3262	86.3262	5.1800e-003	0.0000	86.4556
Vendor	0.0787	1.8791	0.6223	3.6200e-003	0.0847	0.0148	0.0995	0.0245	0.0142	0.0386	0.0000	347.0733	347.0733	0.0224	0.0000	347.6338
Worker	0.2903	0.2106	2.2347	5.0200e-003	0.4788	3.6400e-003	0.4825	0.1274	3.3600e-003	0.1307	0.0000	453.0948	453.0948	0.0154	0.0000	453.4809
Total	0.3796	2.4552	2.9494	9.5300e-003	0.6161	0.0200	0.6361	0.1653	0.0191	0.1843	0.0000	886.4942	886.4942	0.0430	0.0000	887.5703

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.8019	7.0996	5.4844	0.0114		0.3512	0.3512		0.3309	0.3309	0.0000	1,003.8624	1,003.8624	0.2693	0.0000	1,010.5946
Total	0.8019	7.0996	5.4844	0.0114		0.3512	0.3512		0.3309	0.3309	0.0000	1,003.8624	1,003.8624	0.2693	0.0000	1,010.5946

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3.5 Building Construction - 2019

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	0.0115	0.4052	0.0980	1.0400e-003	0.0534	1.7000e-003	0.0551	0.0138	1.6300e-003	0.0154	0.0000	100.8343	100.8343	6.0000e-003	0.0000	100.9842
Vendor	0.0819	2.0971	0.6409	4.2400e-003	0.1000	0.0149	0.1149	0.0289	0.0143	0.0432	0.0000	407.0276	407.0276	0.0255	0.0000	407.6655
Worker	0.3114	0.2188	2.3625	5.7300e-003	0.5655	4.1700e-003	0.5697	0.1504	3.8500e-003	0.1543	0.0000	516.9243	516.9243	0.0161	0.0000	517.3262
Total	0.4048	2.7211	3.1015	0.0110	0.7189	0.0208	0.7397	0.1930	0.0198	0.2128	0.0000	1,024.7862	1,024.7862	0.0476	0.0000	1,025.9760

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	0.8019	3.5814	5.4844	0.0114		0.3512	0.3512		0.3309	0.3309	0.0000	1,003.8612	1,003.8612	0.2693	0.0000	1,010.5934
Total	0.8019	3.5814	5.4844	0.0114		0.3512	0.3512		0.3309	0.3309	0.0000	1,003.8612	1,003.8612	0.2693	0.0000	1,010.5934

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3.5 Building Construction - 2019

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	0.0115	0.4052	0.0980	1.0400e-003	0.0534	1.7000e-003	0.0551	0.0138	1.6300e-003	0.0154	0.0000	100.8343	100.8343	6.0000e-003	0.0000	100.9842
Vendor	0.0819	2.0971	0.6409	4.2400e-003	0.1000	0.0149	0.1149	0.0289	0.0143	0.0432	0.0000	407.0276	407.0276	0.0255	0.0000	407.6655
Worker	0.3114	0.2188	2.3625	5.7300e-003	0.5655	4.1700e-003	0.5697	0.1504	3.8500e-003	0.1543	0.0000	516.9243	516.9243	0.0161	0.0000	517.3262
Total	0.4048	2.7211	3.1015	0.0110	0.7189	0.0208	0.7397	0.1930	0.0198	0.2128	0.0000	1,024.7862	1,024.7862	0.0476	0.0000	1,025.9760

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.7348	6.4220	5.3780	0.0115		0.3085	0.3085		0.2906	0.2906	0.0000	990.3876	990.3876	0.2678	0.0000	997.0818
Total	0.7348	6.4220	5.3780	0.0115		0.3085	0.3085		0.2906	0.2906	0.0000	990.3876	990.3876	0.2678	0.0000	997.0818

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3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0101	0.3761	0.0850	1.0300e-003	0.0534	1.3500e-003	0.0548	0.0138	1.2900e-003	0.0150	0.0000	100.1651	100.1651	5.8200e-003	0.0000	100.3106
Vendor	0.0657	1.9245	0.5368	4.2300e-003	0.1004	9.9600e-003	0.1103	0.0290	9.5300e-003	0.0385	0.0000	406.0522	406.0522	0.0240	0.0000	406.6533
Worker	0.2877	0.1951	2.1394	5.5700e-003	0.5677	4.0900e-003	0.5717	0.1510	3.7700e-003	0.1547	0.0000	502.9538	502.9538	0.0142	0.0000	503.3094
Total	0.3635	2.4958	2.7612	0.0108	0.7214	0.0154	0.7368	0.1937	0.0146	0.2083	0.0000	1,009.1711	1,009.1711	0.0441	0.0000	1,010.2733

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	0.7348	3.3019	5.3780	0.0115		0.3085	0.3085		0.2906	0.2906	0.0000	990.3865	990.3865	0.2678	0.0000	997.0806
Total	0.7348	3.3019	5.3780	0.0115		0.3085	0.3085		0.2906	0.2906	0.0000	990.3865	990.3865	0.2678	0.0000	997.0806

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3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0101	0.3761	0.0850	1.0300e-003	0.0534	1.3500e-003	0.0548	0.0138	1.2900e-003	0.0150	0.0000	100.1651	100.1651	5.8200e-003	0.0000	100.3106
Vendor	0.0657	1.9245	0.5368	4.2300e-003	0.1004	9.9600e-003	0.1103	0.0290	9.5300e-003	0.0385	0.0000	406.0522	406.0522	0.0240	0.0000	406.6533
Worker	0.2877	0.1951	2.1394	5.5700e-003	0.5677	4.0900e-003	0.5717	0.1510	3.7700e-003	0.1547	0.0000	502.9538	502.9538	0.0142	0.0000	503.3094
Total	0.3635	2.4958	2.7612	0.0108	0.7214	0.0154	0.7368	0.1937	0.0146	0.2083	0.0000	1,009.1711	1,009.1711	0.0441	0.0000	1,010.2733

3.5 Building Construction - 2021

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	0.0305	0.2591	0.2403	5.3000e-004		0.0121	0.0121		0.0114	0.0114	0.0000	45.3618	45.3618	0.0122	0.0000	45.6660
Total	0.0305	0.2591	0.2403	5.3000e-004		0.0121	0.0121		0.0114	0.0114	0.0000	45.3618	45.3618	0.0122	0.0000	45.6660

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3.5 Building Construction - 2021

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	4.3000e-004	0.0158	3.6200e-003	5.0000e-005	0.0482	5.0000e-005	0.0483	0.0119	5.0000e-005	0.0119	0.0000	4.5344	4.5344	2.6000e-004	0.0000	4.5410
Vendor	2.4700e-003	0.0804	0.0215	1.9000e-004	4.6000e-003	2.2000e-004	4.8200e-003	1.3300e-003	2.1000e-004	1.5400e-003	0.0000	18.4431	18.4431	1.0500e-003	0.0000	18.4694
Worker	0.0123	8.0100e-003	0.0896	2.5000e-004	0.0260	1.8000e-004	0.0262	6.9100e-003	1.7000e-004	7.0800e-003	0.0000	22.2517	22.2517	5.8000e-004	0.0000	22.2663
Total	0.0152	0.1042	0.1147	4.9000e-004	0.0788	4.5000e-004	0.0793	0.0201	4.3000e-004	0.0205	0.0000	45.2292	45.2292	1.8900e-003	0.0000	45.2767

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	0.0305	0.1384	0.2403	5.3000e-004		0.0121	0.0121		0.0114	0.0114	0.0000	45.3617	45.3617	0.0122	0.0000	45.6660
Total	0.0305	0.1384	0.2403	5.3000e-004		0.0121	0.0121		0.0114	0.0114	0.0000	45.3617	45.3617	0.0122	0.0000	45.6660

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3.5 Building Construction - 2021

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	4.3000e-004	0.0158	3.6200e-003	5.0000e-005	0.0482	5.0000e-005	0.0483	0.0119	5.0000e-005	0.0119	0.0000	4.5344	4.5344	2.6000e-004	0.0000	4.5410
Vendor	2.4700e-003	0.0804	0.0215	1.9000e-004	4.6000e-003	2.2000e-004	4.8200e-003	1.3300e-003	2.1000e-004	1.5400e-003	0.0000	18.4431	18.4431	1.0500e-003	0.0000	18.4694
Worker	0.0123	8.0100e-003	0.0896	2.5000e-004	0.0260	1.8000e-004	0.0262	6.9100e-003	1.7000e-004	7.0800e-003	0.0000	22.2517	22.2517	5.8000e-004	0.0000	22.2663
Total	0.0152	0.1042	0.1147	4.9000e-004	0.0788	4.5000e-004	0.0793	0.0201	4.3000e-004	0.0205	0.0000	45.2292	45.2292	1.8900e-003	0.0000	45.2767

3.6 Paving - 2021

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	8.7400e-003	0.0872	0.0990	1.5000e-004		4.6500e-003	4.6500e-003		4.2900e-003	4.2900e-003	0.0000	13.1997	13.1997	4.1700e-003	0.0000	13.3040
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.7400e-003	0.0872	0.0990	1.5000e-004		4.6500e-003	4.6500e-003		4.2900e-003	4.2900e-003	0.0000	13.1997	13.1997	4.1700e-003	0.0000	13.3040

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3.6 Paving - 2021

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	1.7300e-003	1.1300e-003	0.0127	3.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.1429	3.1429	8.0000e-005	0.0000	3.1450
Total	1.7300e-003	1.1300e-003	0.0127	3.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.1429	3.1429	8.0000e-005	0.0000	3.1450

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	8.7400e-003	0.0872	0.0990	1.5000e-004		4.6500e-003	4.6500e-003		4.2900e-003	4.2900e-003	0.0000	13.1997	13.1997	4.1700e-003	0.0000	13.3039
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.7400e-003	0.0872	0.0990	1.5000e-004		4.6500e-003	4.6500e-003		4.2900e-003	4.2900e-003	0.0000	13.1997	13.1997	4.1700e-003	0.0000	13.3039

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3.6 Paving - 2021

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	1.7300e-003	1.1300e-003	0.0127	3.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.1429	3.1429	8.0000e-005	0.0000	3.1450
Total	1.7300e-003	1.1300e-003	0.0127	3.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.1429	3.1429	8.0000e-005	0.0000	3.1450

3.7 Architectural Coating - 2021

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	3.6060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5700e-003	0.0458	0.0545	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729
Total	3.6126	0.0458	0.0545	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729

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3.7 Architectural Coating - 2021

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	1.7300e-003	1.1300e-003	0.0127	3.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.1429	3.1429	8.0000e-005	0.0000	3.1450
Total	1.7300e-003	1.1300e-003	0.0127	3.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.1429	3.1429	8.0000e-005	0.0000	3.1450

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	3.6060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5700e-003	0.0458	0.0545	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729
Total	3.6126	0.0458	0.0545	9.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	7.6598	7.6598	5.3000e-004	0.0000	7.6729

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3.7 Architectural Coating - 2021

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	1.7300e-003	1.1300e-003	0.0127	3.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.1429	3.1429	8.0000e-005	0.0000	3.1450
Total	1.7300e-003	1.1300e-003	0.0127	3.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	3.1429	3.1429	8.0000e-005	0.0000	3.1450

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.4448	9.6803	24.7818	0.0694	5.7057	0.0645	5.7701	1.5300	0.0603	1.5903	0.0000	6,380.504 4	6,380.504 4	0.3347	0.0000	6,388.871 5
Unmitigated	2.4448	9.6803	24.7818	0.0694	5.7057	0.0645	5.7701	1.5300	0.0603	1.5903	0.0000	6,380.504 4	6,380.504 4	0.3347	0.0000	6,388.871 5

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Day-Care Center	262.80	23.40	22.20	172,559	172,559
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	8,272.50	1,845.00	787.50	12,979,178	12,979,178
High Turnover (Sit Down Restaurant)	1,780.10	2,217.18	1845.76	1,645,610	1,645,610
Strip Mall	443.20	420.40	204.30	499,023	499,023
Total	10,758.60	4,505.98	2,859.76	15,296,371	15,296,371

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
Day-Care Center	10.00	5.00	6.50	12.70	82.30	5.00	28	58	14
Enclosed Parking with Elevator	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
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

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Day-Care Center	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Enclosed Parking with Elevator	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
High Turnover (Sit Down Restaurant)	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Strip Mall	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,199.3127	3,199.3127	0.1572	0.0325	3,212.9325
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,199.3127	3,199.3127	0.1572	0.0325	3,212.9325
NaturalGas Mitigated	0.0672	0.6112	0.5134	3.6700e-003		0.0465	0.0465		0.0465	0.0465	0.0000	665.3626	665.3626	0.0128	0.0122	669.3165
NaturalGas Unmitigated	0.0672	0.6112	0.5134	3.6700e-003		0.0465	0.0465		0.0465	0.0465	0.0000	665.3626	665.3626	0.0128	0.0122	669.3165

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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					
Day-Care Center	52023.6	2.8000e-004	2.5500e-003	2.1400e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7762	2.7762	5.0000e-005	5.0000e-005	2.7927
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
General Office Building	9.87e+006	0.0532	0.4838	0.4064	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.7008	526.7008	0.0101	9.6600e-003	529.8307
High Turnover (Sit Down Restaurant)	2.492e+006	0.0134	0.1222	0.1026	7.3000e-004		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	132.9826	132.9826	2.5500e-003	2.4400e-003	133.7729
Strip Mall	54400	2.9000e-004	2.6700e-003	2.2400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9030	2.9030	6.0000e-005	5.0000e-005	2.9202
Total		0.0672	0.6112	0.5134	3.6700e-003		0.0464	0.0464		0.0464	0.0464	0.0000	665.3626	665.3626	0.0128	0.0122	669.3165

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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					
Day-Care Center	52023.6	2.8000e-004	2.5500e-003	2.1400e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7762	2.7762	5.0000e-005	5.0000e-005	2.7927
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
General Office Building	9.87e+006	0.0532	0.4838	0.4064	2.9000e-003		0.0368	0.0368		0.0368	0.0368	0.0000	526.7008	526.7008	0.0101	9.6600e-003	529.8307
High Turnover (Sit Down Restaurant)	2.492e+006	0.0134	0.1222	0.1026	7.3000e-004		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	132.9826	132.9826	2.5500e-003	2.4400e-003	133.7729
Strip Mall	54400	2.9000e-004	2.6700e-003	2.2400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9030	2.9030	6.0000e-005	5.0000e-005	2.9202
Total		0.0672	0.6112	0.5134	3.6700e-003		0.0464	0.0464		0.0464	0.0464	0.0000	665.3626	665.3626	0.0128	0.0122	669.3165

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Day-Care Center	25469.2	6.8196	3.4000e-004	7.0000e-005	6.8487
Enclosed Parking with Elevator	134800	36.0941	1.7700e-003	3.7000e-004	36.2477
General Office Building	1.10775e+007	2,966.1126	0.1457	0.0302	2,978.7396
High Turnover (Sit Down Restaurant)	592060	158.5301	7.7900e-003	1.6100e-003	159.2049
Strip Mall	118600	31.7564	1.5600e-003	3.2000e-004	31.8915
Total		3,199.3127	0.1572	0.0325	3,212.9325

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Day-Care Center	25469.2	6.8196	3.4000e-004	7.0000e-005	6.8487
Enclosed Parking with Elevator	134800	36.0941	1.7700e-003	3.7000e-004	36.2477
General Office Building	1.10775e+007	2,966.1126	0.1457	0.0302	2,978.7396
High Turnover (Sit Down Restaurant)	592060	158.5301	7.7900e-003	1.6100e-003	159.2049
Strip Mall	118600	31.7564	1.5600e-003	3.2000e-004	31.8915
Total		3,199.3127	0.1572	0.0325	3,212.9325

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234
Unmitigated	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234

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	0.3606					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0374					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0600e-003	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234
Total	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234

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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	0.3606					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0374					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0600e-003	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234
Total	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	311.2684	0.1815	0.1092	348.3404
Unmitigated	311.2684	0.1815	0.1092	348.3404

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Day-Care Center	0.145454 / 0.374026	0.5960	2.0000e-004	1.2000e-004	0.6361
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	133.3 / 81.7002	301.5695	0.1748	0.1052	337.2741
High Turnover (Sit Down Restaurant)	4.24947 / 0.271243	7.4271	5.4700e-003	3.3300e-003	8.5560
Strip Mall	0.740725 / 0.453993	1.6758	9.7000e-004	5.8000e-004	1.8742
Total		311.2684	0.1815	0.1092	348.3404

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Day-Care Center	0.145454 / 0.374026	0.5960	2.0000e-004	1.2000e-004	0.6361
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	133.3 / 81.7002	301.5695	0.1748	0.1052	337.2741
High Turnover (Sit Down Restaurant)	4.24947 / 0.271243	7.4271	5.4700e-003	3.3300e-003	8.5560
Strip Mall	0.740725 / 0.453993	1.6758	9.7000e-004	5.8000e-004	1.8742
Total		311.2684	0.1815	0.1092	348.3404

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	179.7587	10.6234	0.0000	445.3444
Unmitigated	179.7587	10.6234	0.0000	445.3444

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Day-Care Center	10.95	2.2228	0.1314	0.0000	5.5068
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	697.5	141.5862	8.3675	0.0000	350.7738
High Turnover (Sit Down Restaurant)	166.6	33.8183	1.9986	0.0000	83.7834
Strip Mall	10.5	2.1314	0.1260	0.0000	5.2805
Total		179.7587	10.6234	0.0000	445.3444

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Day-Care Center	10.95	2.2228	0.1314	0.0000	5.5068
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	697.5	141.5862	8.3675	0.0000	350.7738
High Turnover (Sit Down Restaurant)	166.6	33.8183	1.9986	0.0000	83.7834
Strip Mall	10.5	2.1314	0.1260	0.0000	5.2805
Total		179.7587	10.6234	0.0000	445.3444

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

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

11.0 Vegetation

DGS P Street Operational - Sacramento County, Annual

DGS P Street Operational Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	750.00	1000sqft	1.80	750,000.00	0
Day-Care Center	60.00	Student	0.08	3,391.37	0
Enclosed Parking with Elevator	50.00	Space	0.45	20,000.00	0
High Turnover (Sit Down Restaurant)	14.00	1000sqft	0.32	14,000.00	0
Strip Mall	10.00	1000sqft	0.23	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2021
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	534	CH4 Intensity (lb/MWhr)	0.027	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Adjusted SMUD intensity factors, SMUD 2020 is 33% renewable

Land Use - strip mall considered to be CalEEMod equivalent of retail; high turnover restaurant considered to be CalEEMod equivalent of food court

Construction Phase -

Vehicle Trips - Trip lengths adjusted to match traffic study VMT

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - 2016 Title 24 standards reduce energy consumption 5%

Energy Mitigation - From PD: 400 kw solar system will generate 609,282 kWh. Project designed to exceed 2016 Title 24 standards. Lighting efficiency of 16% reduction minimum from CAPCOA guidance.

Water Mitigation - All plumbing fixtures in building would be low-flow from PD. Greywater usage of XX gallons/year is X% (demand is XX AFY)

Waste Mitigation - Recycle 50% of waste

Stationary Sources - Emergency Generators and Fire Pumps - 1500 kw diesel generator converted to HP. 500 hours per year is maximum capacity of most generators.

Fleet Mix - HHD reduced by half and that reduction was added to the MHD category based on conservative approach to comments received from project engineer. School bus trips taken out and that reduction was added to LDA category.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	T24E	2.15	2.04
tblEnergyUse	T24E	3.92	3.72
tblEnergyUse	T24E	5.22	4.96
tblEnergyUse	T24E	9.22	8.76
tblEnergyUse	T24E	3.41	3.24
tblEnergyUse	T24NG	14.68	13.95
tblEnergyUse	T24NG	12.48	11.86
tblEnergyUse	T24NG	59.96	56.96
tblEnergyUse	T24NG	4.51	4.28
tblFleetMix	HHD	0.02	0.01
tblFleetMix	HHD	0.02	0.01

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tblFleetMix	HHD	0.02	0.01
tblFleetMix	HHD	0.02	0.01
tblFleetMix	HHD	0.02	0.01
tblFleetMix	LDA	0.56	0.56
tblFleetMix	LDA	0.56	0.56
tblFleetMix	LDA	0.56	0.56
tblFleetMix	LDA	0.56	0.56
tblFleetMix	LDA	0.56	0.56
tblFleetMix	SBUS	6.1800e-004	0.00
tblFleetMix	SBUS	6.1800e-004	0.00
tblFleetMix	SBUS	6.1800e-004	0.00
tblFleetMix	SBUS	6.1800e-004	0.00
tblFleetMix	SBUS	6.1800e-004	0.00
tblLandUse	LotAcreage	17.22	1.80
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.027
tblProjectCharacteristics	CO2IntensityFactor	590.31	534
tblProjectCharacteristics	OperationalYear	2018	2021
tblVehicleTrips	CC_TL	5.00	5.39
tblVehicleTrips	CNW_TL	6.50	6.45
tblVehicleTrips	CNW_TL	6.50	4.12
tblVehicleTrips	CNW_TL	6.50	5.00
tblVehicleTrips	CNW_TL	6.50	5.00
tblVehicleTrips	CW_TL	10.00	11.00
tblVehicleTrips	CW_TL	10.00	11.00
tblVehicleTrips	CW_TL	10.00	11.00

2.0 Emissions Summary

DGS P Street Operational - Sacramento County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-2-2017	8-1-2017	1.3009	1.3009
2	8-2-2017	11-1-2017	1.5558	1.5558
3	11-2-2017	2-1-2018	1.5217	1.5217
4	2-2-2018	5-1-2018	2.2148	2.2148
5	5-2-2018	8-1-2018	2.5854	2.5854
		Highest	2.5854	2.5854

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234
Energy	0.0645	0.5861	0.4923	3.5200e-003		0.0445	0.0445		0.0445	0.0445	0.0000	3,481.9173	3,481.9173	0.1560	0.0437	3,498.8259
Mobile	2.3500	6.8974	23.3291	0.0612	5.3466	0.0562	5.4027	1.4309	0.0525	1.4834	0.0000	5,603.5041	5,603.5041	0.2808	0.0000	5,610.5230
Stationary	0.9108	4.0730	2.3223	4.3800e-003		0.1340	0.1340		0.1340	0.1340	0.0000	422.6849	422.6849	0.0593	0.0000	424.1664
Waste						0.0000	0.0000		0.0000	0.0000	179.7587	0.0000	179.7587	10.6234	0.0000	445.3444
Water						0.0000	0.0000		0.0000	0.0000	48.9789	237.2696	286.2485	0.1806	0.1092	323.2982
Total	6.7244	11.5566	26.1551	0.0691	5.3466	0.2348	5.5813	1.4309	0.2311	1.6620	228.7375	9,745.3978	9,974.1353	11.3001	0.1528	10,302.1813

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234
Energy	0.0618	0.5621	0.4722	3.3700e-003		0.0427	0.0427		0.0427	0.0427	0.0000	3,141.8467	3,141.8467	0.1397	0.0396	3,157.1520
Mobile	2.3500	6.8974	23.3291	0.0612	5.3466	0.0562	5.4027	1.4309	0.0525	1.4834	0.0000	5,603.5041	5,603.5041	0.2808	0.0000	5,610.5230
Stationary	0.9108	4.0730	2.3223	4.3800e-003		0.1340	0.1340		0.1340	0.1340	0.0000	422.6849	422.6849	0.0593	0.0000	424.1664
Waste						0.0000	0.0000		0.0000	0.0000	89.8793	0.0000	89.8793	5.3117	0.0000	222.6722
Water						0.0000	0.0000		0.0000	0.0000	39.1831	203.8546	243.0376	0.1452	0.0875	272.7422
Total	6.7217	11.5327	26.1349	0.0690	5.3466	0.2329	5.5795	1.4309	0.2292	1.6602	129.0624	9,371.9121	9,500.9746	5.9366	0.1271	9,687.2792

	ROG	NOx	CO	SO2	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	0.04	0.21	0.08	0.22	0.00	0.78	0.03	0.00	0.79	0.11	43.58	3.83	4.74	47.46	16.81	5.97

3.0 Construction Detail

Construction Phase

DGS P Street Operational - Sacramento County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/2/2017	5/29/2017	5	20	
2	Site Preparation	Site Preparation	5/30/2017	6/1/2017	5	3	
3	Grading	Grading	6/2/2017	6/9/2017	5	6	
4	Building Construction	Building Construction	6/10/2017	4/13/2018	5	220	
5	Paving	Paving	4/14/2018	4/27/2018	5	10	
6	Architectural Coating	Architectural Coating	4/28/2018	5/11/2018	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0.45

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,166,087; Non-Residential Outdoor: 388,696; Striped Parking Area: 1,200 (Architectural Coating – sqft)

OffRoad Equipment

DGS P Street Operational - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	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	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	259.00	131.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	52.00	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	0.0276	0.2676	0.1556	2.4000e-004		0.0165	0.0165		0.0154	0.0154	0.0000	21.9668	21.9668	5.5600e-003	0.0000	22.1057
Total	0.0276	0.2676	0.1556	2.4000e-004		0.0165	0.0165		0.0154	0.0154	0.0000	21.9668	21.9668	5.5600e-003	0.0000	22.1057

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3.2 Demolition - 2017

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	6.5000e-004	4.8000e-004	5.0900e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.9284	0.9284	4.0000e-005	0.0000	0.9293
Total	6.5000e-004	4.8000e-004	5.0900e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.9284	0.9284	4.0000e-005	0.0000	0.9293

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	0.0276	0.2676	0.1556	2.4000e-004		0.0165	0.0165		0.0154	0.0154	0.0000	21.9668	21.9668	5.5600e-003	0.0000	22.1057
Total	0.0276	0.2676	0.1556	2.4000e-004		0.0165	0.0165		0.0154	0.0154	0.0000	21.9668	21.9668	5.5600e-003	0.0000	22.1057

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3.2 Demolition - 2017

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	6.5000e-004	4.8000e-004	5.0900e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.9284	0.9284	4.0000e-005	0.0000	0.9293
Total	6.5000e-004	4.8000e-004	5.0900e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.9284	0.9284	4.0000e-005	0.0000	0.9293

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e-003	0.0401	0.0216	4.0000e-005		1.6600e-003	1.6600e-003		1.5300e-003	1.5300e-003	0.0000	3.4134	3.4134	1.0500e-003	0.0000	3.4395
Total	3.2000e-003	0.0401	0.0216	4.0000e-005	2.3900e-003	1.6600e-003	4.0500e-003	2.6000e-004	1.5300e-003	1.7900e-003	0.0000	3.4134	3.4134	1.0500e-003	0.0000	3.4395

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3.3 Site Preparation - 2017

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	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0857	0.0857	0.0000	0.0000	0.0858
Total	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0857	0.0857	0.0000	0.0000	0.0858

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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2000e-003	0.0401	0.0216	4.0000e-005		1.6600e-003	1.6600e-003		1.5300e-003	1.5300e-003	0.0000	3.4134	3.4134	1.0500e-003	0.0000	3.4395
Total	3.2000e-003	0.0401	0.0216	4.0000e-005	2.3900e-003	1.6600e-003	4.0500e-003	2.6000e-004	1.5300e-003	1.7900e-003	0.0000	3.4134	3.4134	1.0500e-003	0.0000	3.4395

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3.3 Site Preparation - 2017

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	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0857	0.0857	0.0000	0.0000	0.0858
Total	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0857	0.0857	0.0000	0.0000	0.0858

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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9600e-003	0.0785	0.0323	6.0000e-005		3.9000e-003	3.9000e-003		3.5800e-003	3.5800e-003	0.0000	5.7484	5.7484	1.7600e-003	0.0000	5.7925
Total	6.9600e-003	0.0785	0.0323	6.0000e-005	0.0197	3.9000e-003	0.0236	0.0101	3.5800e-003	0.0137	0.0000	5.7484	5.7484	1.7600e-003	0.0000	5.7925

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3.4 Grading - 2017

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	1.1000e-004	1.1700e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2142	0.2142	1.0000e-005	0.0000	0.2144
Total	1.5000e-004	1.1000e-004	1.1700e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2142	0.2142	1.0000e-005	0.0000	0.2144

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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9600e-003	0.0785	0.0323	6.0000e-005		3.9000e-003	3.9000e-003		3.5800e-003	3.5800e-003	0.0000	5.7484	5.7484	1.7600e-003	0.0000	5.7924
Total	6.9600e-003	0.0785	0.0323	6.0000e-005	0.0197	3.9000e-003	0.0236	0.0101	3.5800e-003	0.0137	0.0000	5.7484	5.7484	1.7600e-003	0.0000	5.7924

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3.4 Grading - 2017

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	1.1000e-004	1.1700e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2142	0.2142	1.0000e-005	0.0000	0.2144
Total	1.5000e-004	1.1000e-004	1.1700e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2142	0.2142	1.0000e-005	0.0000	0.2144

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	0.2423	1.6696	1.1825	1.8100e-003		0.1066	0.1066		0.1020	0.1020	0.0000	154.4051	154.4051	0.0344	0.0000	155.2648
Total	0.2423	1.6696	1.1825	1.8100e-003		0.1066	0.1066		0.1020	0.1020	0.0000	154.4051	154.4051	0.0344	0.0000	155.2648

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3.5 Building Construction - 2017

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	0.0607	1.3083	0.4918	2.3900e-003	0.0556	0.0118	0.0674	0.0161	0.0113	0.0274	0.0000	228.5268	228.5268	0.0155	0.0000	228.9135
Worker	0.0940	0.0696	0.7351	1.4900e-003	0.1379	1.1000e-003	0.1390	0.0367	1.0100e-003	0.0377	0.0000	134.0964	134.0964	5.0800e-003	0.0000	134.2235
Total	0.1547	1.3779	1.2269	3.8800e-003	0.1935	0.0129	0.2064	0.0527	0.0123	0.0651	0.0000	362.6231	362.6231	0.0206	0.0000	363.1370

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	0.2423	1.6696	1.1825	1.8100e-003		0.1066	0.1066		0.1020	0.1020	0.0000	154.4050	154.4050	0.0344	0.0000	155.2647
Total	0.2423	1.6696	1.1825	1.8100e-003		0.1066	0.1066		0.1020	0.1020	0.0000	154.4050	154.4050	0.0344	0.0000	155.2647

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3.5 Building Construction - 2017

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	0.0607	1.3083	0.4918	2.3900e-003	0.0556	0.0118	0.0674	0.0161	0.0113	0.0274	0.0000	228.5268	228.5268	0.0155	0.0000	228.9135
Worker	0.0940	0.0696	0.7351	1.4900e-003	0.1379	1.1000e-003	0.1390	0.0367	1.0100e-003	0.0377	0.0000	134.0964	134.0964	5.0800e-003	0.0000	134.2235
Total	0.1547	1.3779	1.2269	3.8800e-003	0.1935	0.0129	0.2064	0.0527	0.0123	0.0651	0.0000	362.6231	362.6231	0.0206	0.0000	363.1370

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	0.1092	0.7765	0.5894	9.4000e-004		0.0472	0.0472		0.0452	0.0452	0.0000	79.2576	79.2576	0.0171	0.0000	79.6845
Total	0.1092	0.7765	0.5894	9.4000e-004		0.0472	0.0472		0.0452	0.0452	0.0000	79.2576	79.2576	0.0171	0.0000	79.6845

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3.5 Building Construction - 2018

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	0.0267	0.6377	0.2112	1.2300e-003	0.0287	5.0200e-003	0.0338	8.3000e-003	4.8100e-003	0.0131	0.0000	117.7850	117.7850	7.6100e-003	0.0000	117.9753
Worker	0.0433	0.0314	0.3329	7.5000e-004	0.0713	5.4000e-004	0.0719	0.0190	5.0000e-004	0.0195	0.0000	67.5003	67.5003	2.3000e-003	0.0000	67.5578
Total	0.0700	0.6691	0.5441	1.9800e-003	0.1001	5.5600e-003	0.1056	0.0273	5.3100e-003	0.0326	0.0000	185.2854	185.2854	9.9100e-003	0.0000	185.5331

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	0.1092	0.7765	0.5894	9.4000e-004		0.0472	0.0472		0.0452	0.0452	0.0000	79.2576	79.2576	0.0171	0.0000	79.6844
Total	0.1092	0.7765	0.5894	9.4000e-004		0.0472	0.0472		0.0452	0.0452	0.0000	79.2576	79.2576	0.0171	0.0000	79.6844

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3.5 Building Construction - 2018

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	0.0267	0.6377	0.2112	1.2300e-003	0.0287	5.0200e-003	0.0338	8.3000e-003	4.8100e-003	0.0131	0.0000	117.7850	117.7850	7.6100e-003	0.0000	117.9753
Worker	0.0433	0.0314	0.3329	7.5000e-004	0.0713	5.4000e-004	0.0719	0.0190	5.0000e-004	0.0195	0.0000	67.5003	67.5003	2.3000e-003	0.0000	67.5578
Total	0.0700	0.6691	0.5441	1.9800e-003	0.1001	5.5600e-003	0.1056	0.0273	5.3100e-003	0.0326	0.0000	185.2854	185.2854	9.9100e-003	0.0000	185.5331

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093

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3.6 Paving - 2018

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	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217
Total	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217

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	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093

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3.6 Paving - 2018

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	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217
Total	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217

3.7 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	3.6060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	0.0100	9.2700e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	1.2766	1.2766	1.2000e-004	0.0000	1.2797
Total	3.6075	0.0100	9.2700e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	1.2766	1.2766	1.2000e-004	0.0000	1.2797

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3.7 Architectural Coating - 2018

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	1.1600e-003	8.4000e-004	8.9100e-003	2.0000e-005	1.9100e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.8070	1.8070	6.0000e-005	0.0000	1.8085
Total	1.1600e-003	8.4000e-004	8.9100e-003	2.0000e-005	1.9100e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.8070	1.8070	6.0000e-005	0.0000	1.8085

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	3.6060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	0.0100	9.2700e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	1.2766	1.2766	1.2000e-004	0.0000	1.2797
Total	3.6075	0.0100	9.2700e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	1.2766	1.2766	1.2000e-004	0.0000	1.2797

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3.7 Architectural Coating - 2018

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	1.1600e-003	8.4000e-004	8.9100e-003	2.0000e-005	1.9100e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.8070	1.8070	6.0000e-005	0.0000	1.8085
Total	1.1600e-003	8.4000e-004	8.9100e-003	2.0000e-005	1.9100e-003	1.0000e-005	1.9200e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.8070	1.8070	6.0000e-005	0.0000	1.8085

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3500	6.8974	23.3291	0.0612	5.3466	0.0562	5.4027	1.4309	0.0525	1.4834	0.0000	5,603.5041	5,603.5041	0.2808	0.0000	5,610.5230
Unmitigated	2.3500	6.8974	23.3291	0.0612	5.3466	0.0562	5.4027	1.4309	0.0525	1.4834	0.0000	5,603.5041	5,603.5041	0.2808	0.0000	5,610.5230

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Day-Care Center	262.80	23.40	22.20	185,944	185,944
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	8,272.50	1,845.00	787.50	12,133,461	12,133,461
High Turnover (Sit Down Restaurant)	1,780.10	2,217.18	1845.76	1,588,986	1,588,986
Strip Mall	443.20	420.40	204.30	489,355	489,355
Total	10,758.60	4,505.98	2,859.76	14,397,746	14,397,746

4.3 Trip Type Information

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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
Day-Care Center	11.00	5.39	6.45	12.70	82.30	5.00	28	58	14
Enclosed Parking with Elevator	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
General Office Building	10.00	5.00	4.12	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down Restaurant)	11.00	5.00	5.00	8.50	72.50	19.00	37	20	43
Strip Mall	11.00	5.00	5.00	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.556469	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.011334	0.002052	0.002157	0.005939	0.000000	0.000915
Day-Care Center	0.556469	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.011334	0.002052	0.002157	0.005939	0.000000	0.000915
Enclosed Parking with Elevator	0.556469	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.011334	0.002052	0.002157	0.005939	0.000000	0.000915
High Turnover (Sit Down Restaurant)	0.556469	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.011334	0.002052	0.002157	0.005939	0.000000	0.000915
Strip Mall	0.556469	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.011334	0.002052	0.002157	0.005939	0.000000	0.000915

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,529.8961	2,529.8961	0.1279	0.0284	2,541.5649
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,843.8651	2,843.8651	0.1438	0.0320	2,856.9820
NaturalGas Mitigated	0.0618	0.5621	0.4722	3.3700e-003		0.0427	0.0427		0.0427	0.0427	0.0000	611.9506	611.9506	0.0117	0.0112	615.5871
NaturalGas Unmitigated	0.0645	0.5861	0.4923	3.5200e-003		0.0445	0.0445		0.0445	0.0445	0.0000	638.0523	638.0523	0.0122	0.0117	641.8439

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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					
Day-Care Center	49547.9	2.7000e-004	2.4300e-003	2.0400e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.6441	2.6441	5.0000e-005	5.0000e-005	2.6598
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
General Office Building	9.405e+006	0.0507	0.4610	0.3873	2.7700e-003		0.0350	0.0350		0.0350	0.0350	0.0000	501.8866	501.8866	9.6200e-003	9.2000e-003	504.8691
High Turnover (Sit Down Restaurant)	2.45e+006	0.0132	0.1201	0.1009	7.2000e-004		9.1300e-003	9.1300e-003		9.1300e-003	9.1300e-003	0.0000	130.7413	130.7413	2.5100e-003	2.4000e-003	131.5183
Strip Mall	52100	2.8000e-004	2.5500e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7803	2.7803	5.0000e-005	5.0000e-005	2.7968
Total		0.0645	0.5861	0.4923	3.5200e-003		0.0445	0.0445		0.0445	0.0445	0.0000	638.0523	638.0523	0.0122	0.0117	641.8439

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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					
Day-Care Center	47182.4	2.5000e-004	2.3100e-003	1.9400e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5178	2.5178	5.0000e-005	5.0000e-005	2.5328
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
General Office Building	8.96025e+006	0.0483	0.4392	0.3690	2.6400e-003		0.0334	0.0334		0.0334	0.0334	0.0000	478.1531	478.1531	9.1600e-003	8.7700e-003	480.9945
High Turnover (Sit Down Restaurant)	2.41013e+006	0.0130	0.1181	0.0992	7.1000e-004		8.9800e-003	8.9800e-003		8.9800e-003	8.9800e-003	0.0000	128.6136	128.6136	2.4700e-003	2.3600e-003	129.3779
Strip Mall	49960	2.7000e-004	2.4500e-003	2.0600e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.6661	2.6661	5.0000e-005	5.0000e-005	2.6819
Total		0.0618	0.5621	0.4722	3.3700e-003		0.0427	0.0427		0.0427	0.0427	0.0000	611.9506	611.9506	0.0117	0.0112	615.5871

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Day-Care Center	25096.1	6.0787	3.1000e-004	7.0000e-005	6.1068
Enclosed Parking with Elevator	130800	31.6822	1.6000e-003	3.6000e-004	31.8283
General Office Building	1.08825e+007	2,635.9409	0.1333	0.0296	2,648.0988
High Turnover (Sit Down Restaurant)	585620	141.8479	7.1700e-003	1.5900e-003	142.5022
Strip Mall	116900	28.3153	1.4300e-003	3.2000e-004	28.4459
Total		2,843.8651	0.1438	0.0320	2,856.9820

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Day-Care Center	-98837.1	-23.9402	-0.0012	-0.0003	-24.0506
Enclosed Parking with Elevator	-3192.4	-0.7733	0.0000	0.0000	-0.7768
General Office Building	1.01186e+007	2,450.9209	0.1239	0.0275	2,462.2254
High Turnover (Sit Down Restaurant)	443408	107.4015	5.4300e-003	1.2100e-003	107.8968
Strip Mall	-15328.4	-3.7128	-0.0002	0.0000	-3.7299
Total		2,529.8961	0.1279	0.0284	2,541.5649

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234
Unmitigated	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234

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	0.3606					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0374					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0600e-003	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234
Total	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234

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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	0.3606					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0374					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0600e-003	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234
Total	3.3991	1.0000e-004	0.0113	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0219	0.0219	6.0000e-005	0.0000	0.0234

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	243.0376	0.1452	0.0875	272.7422
Unmitigated	286.2485	0.1806	0.1092	323.2982

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Day-Care Center	0.145454 / 0.374026	0.5441	2.0000e-004	1.2000e-004	0.5841
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	133.3 / 81.7002	277.3014	0.1740	0.1052	312.9844
High Turnover (Sit Down Restaurant)	4.24947 / 0.271243	6.8620	5.4500e-003	3.3300e-003	7.9904
Strip Mall	0.740725 / 0.453993	1.5409	9.7000e-004	5.8000e-004	1.7392
Total		286.2484	0.1806	0.1092	323.2982

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Day-Care Center	0.116364 / 0.374026	0.4987	1.6000e-004	9.0000e-005	0.5310
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	106.64 / 81.7002	235.6937	0.1399	0.0843	264.3039
High Turnover (Sit Down Restaurant)	3.39958 / 0.271243	5.5356	4.3600e-003	2.6600e-003	6.4385
Strip Mall	0.59258 / 0.453993	1.3097	7.8000e-004	4.7000e-004	1.4687
Total		243.0377	0.1452	0.0875	272.7422

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	89.8793	5.3117	0.0000	222.6722
Unmitigated	179.7587	10.6234	0.0000	445.3444

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Day-Care Center	10.95	2.2228	0.1314	0.0000	5.5068
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	697.5	141.5862	8.3675	0.0000	350.7738
High Turnover (Sit Down Restaurant)	166.6	33.8183	1.9986	0.0000	83.7834
Strip Mall	10.5	2.1314	0.1260	0.0000	5.2805
Total		179.7587	10.6234	0.0000	445.3444

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Day-Care Center	5.475	1.1114	0.0657	0.0000	2.7534
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	348.75	70.7931	4.1838	0.0000	175.3869
High Turnover (Sit Down Restaurant)	83.3	16.9092	0.9993	0.0000	41.8917
Strip Mall	5.25	1.0657	0.0630	0.0000	2.6402
Total		89.8793	5.3117	0.0000	222.6722

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	500	2220	0.73	Diesel

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.9108	4.0730	2.3223	4.3800e-003		0.1340	0.1340		0.1340	0.1340	0.0000	422.6849	422.6849	0.0593	0.0000	424.1664
Total	0.9108	4.0730	2.3223	4.3800e-003		0.1340	0.1340		0.1340	0.1340	0.0000	422.6849	422.6849	0.0593	0.0000	424.1664

11.0 Vegetation
