

Dignity Mercy Medical Center Redding- Phase 1 - Shasta County, Summer

**Dignity Mercy Medical Center Redding- Phase 1
Shasta County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	80.00	1000sqft	7.51	80,000.00	0
Parking Lot	338.00	Space	3.04	135,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2021
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	128.34	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Revised based on project information

Land Use - Based on project information

Construction Phase -

Demolition -

Grading - Balanced onsite

Architectural Coating - Mitigation Measure will require low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - Shasta County AQMD SMM and BMM

Mobile Land Use Mitigation -

Area Mitigation - City of Redding Green Building Code VOC

Energy Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Vehicle Trips - trip lengths adjusted per GHD VMT study

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblLandUse	LotAcreage	1.84	7.51
tblProjectCharacteristics	CH4IntensityFactor	0	128.34
tblProjectCharacteristics	N2OIntensityFactor	0	0.002
tblVehicleTrips	CC_TL	7.30	11.97
tblVehicleTrips	CNW_TL	7.30	11.97
tblVehicleTrips	CW_TL	9.50	15.58

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					

2020	4.5506	50.2597	32.7157	0.0649	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	6,469.8939	6,469.8939	1.9487	0.0000	6,499.8210
2021	39.2530	21.5135	20.1547	0.0442	0.9108	0.9751	1.8859	0.2470	0.9169	1.1639	0.0000	4,324.4072	4,324.4072	0.7180	0.0000	4,342.3400
Maximum	39.2530	50.2597	32.7157	0.0649	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	6,469.8939	6,469.8939	1.9487	0.0000	6,499.8210

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.3943	21.9165	37.4800	0.0649	7.8635	0.1531	7.9266	4.2827	0.1517	4.3458	0.0000	6,469.8939	6,469.8939	1.9487	0.0000	6,499.8210
2021	39.2530	14.8414	21.6753	0.0442	0.8656	0.1285	0.9940	0.2359	0.1276	0.3635	0.0000	4,324.4072	4,324.4072	0.7180	0.0000	4,342.3399
Maximum	39.2530	21.9165	37.4800	0.0649	7.8635	0.1531	7.9266	4.2827	0.1517	4.3458	0.0000	6,469.8939	6,469.8939	1.9487	0.0000	6,499.8210

	ROG	NOx	CO	SO2	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	7.21	48.79	-11.89	0.00	54.36	91.13	59.99	55.77	90.50	64.21	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	lb/day										lb/day					
Area	2.2976	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976
Energy	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025

Mobile	9.3303	63.6075	90.5976	0.3246	19.8890	0.3427	20.2316	5.3335	0.3239	5.6573		33,002.1677	33,002.1677	1.9371		33,050.5957
Total	11.6588	63.8883	90.8760	0.3262	19.8890	0.3641	20.2531	5.3335	0.3453	5.6788		33,338.7620	33,338.7620	1.9438	6.1700e-003	33,389.1958

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	1.9774	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976
Energy	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025
Mobile	9.3303	63.6075	90.5976	0.3246	19.8890	0.3427	20.2316	5.3335	0.3239	5.6573		33,002.1677	33,002.1677	1.9371		33,050.5957
Total	11.3386	63.8883	90.8760	0.3262	19.8890	0.3641	20.2531	5.3335	0.3453	5.6788		33,338.7620	33,338.7620	1.9438	6.1700e-003	33,389.1958

	ROG	NOx	CO	SO2	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	2.75	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	1/1/2020	1/28/2020	5	20	
2	Site Preparation	Site Preparation	1/29/2020	2/11/2020	5	10	
3	Grading	Grading	2/12/2020	3/24/2020	5	30	
4	Building Construction	Building Construction	3/25/2020	5/18/2021	5	300	
5	Paving	Paving	5/19/2021	6/15/2021	5	20	
6	Architectural Coating	Architectural Coating	6/16/2021	7/13/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 3.04

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 120,000; Non-Residential Outdoor: 40,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	606.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	82.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6604	0.0000	6.6604	1.0085	0.0000	1.0085			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	6.6604	1.6587	8.3191	1.0085	1.5419	2.5504		3,747.7049	3,747.7049	1.0580		3,774.1536

Category	lb/day										lb/day			
Hauling	0.2380	8.3123	1.1412	0.0247	0.5067	0.0326	0.5392	0.1396	0.0311	0.1708	2,588.6422	2,588.6422	0.1344	2,592.0022
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	0.0754	0.0467	0.5680	1.3400e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319	133.5469	133.5469	4.7300e-003	133.6652
Total	0.3134	8.3589	1.7092	0.0260	0.6235	0.0334	0.6569	0.1707	0.0320	0.2027	2,722.1890	2,722.1890	0.1391	2,725.6674

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	3,685.1016	3,685.1016	1.1918			3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	3,685.1016	3,685.1016	1.1918			3,714.8975

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	0.0905	0.0560	0.6816	1.6100e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402	160.2562	160.2562	5.6800e-003			160.3982

Total	0.0905	0.0560	0.6816	1.6100e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		160.2562	160.2562	5.6800e-003		160.3982
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000				0.0000
Off-Road	0.6967	12.1620	22.9600	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,685.1016	3,685.1016	1.1918			3,714.8975
Total	0.6967	12.1620	22.9600	0.0380	7.7233	0.0621	7.7854	4.2454	0.0621	4.3075	0.0000	3,685.1016	3,685.1016	1.1918			3,714.8975

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	0.0905	0.0560	0.6816	1.6100e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		160.2562	160.2562	5.6800e-003			160.3982
Total	0.0905	0.0560	0.6816	1.6100e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		160.2562	160.2562	5.6800e-003			160.3982

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.8653	6,005.8653	1.9424		6,054.4257

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	0.1005	0.0622	0.7574	1.7900e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		178.0625	178.0625	6.3100e-003		178.2202
Total	0.1005	0.0622	0.7574	1.7900e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		178.0625	178.0625	6.3100e-003		178.2202

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					3.7079	0.0000	3.7079	1.5375	0.0000	1.5375			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	1.0110	19.2707	36.7226	0.0620	3.7079	0.1015	3.8094	1.5375	0.1015	1.6390	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

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	0.1005	0.0622	0.7574	1.7900e-003	0.1557	1.1700e-003	0.1569	0.0415	1.0800e-003	0.0426		178.0625	178.0625	6.3100e-003		178.2202
Total	0.1005	0.0622	0.7574	1.7900e-003	0.1557	1.1700e-003	0.1569	0.0415	1.0800e-003	0.0426		178.0625	178.0625	6.3100e-003		178.2202

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	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.1504	4.2199	0.8815	0.0103	0.2372	0.0235	0.2607	0.0683	0.0225	0.0908		1,075.2466	1,075.2466	0.0815		1,077.2845
Worker	0.4122	0.2550	3.1052	7.3400e-003	0.6736	4.7900e-003	0.6784	0.1787	4.4200e-003	0.1831		730.0562	730.0562	0.0259		730.7029
Total	0.5626	4.4750	3.9867	0.0176	0.9108	0.0283	0.9391	0.2470	0.0269	0.2739		1,805.3028	1,805.3028	0.1074		1,807.9873

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	0.8318	10.8224	18.1439	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	0.8318	10.8224	18.1439	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000
Vendor	0.1504	4.2199	0.8815	0.0103	0.2271	0.0235	0.2506	0.0658	0.0225	0.0883	1,075.2466	1,075.2466	0.0815	1,077.2845	
Worker	0.4122	0.2550	3.1052	7.3400e-003	0.6385	4.7900e-003	0.6433	0.1701	4.4200e-003	0.1745	730.0562	730.0562	0.0259	730.7029	
Total	0.5626	4.4750	3.9867	0.0176	0.8656	0.0283	0.8939	0.2359	0.0269	0.2628	1,805.3028	1,805.3028	0.1074	1,807.9873	

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	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.1248	3.8553	0.7687	0.0102	0.2372	0.0118	0.2491	0.0683	0.0113	0.0796		1,066.2929	1,066.2929	0.0785		1,068.2549
Worker	0.3798	0.2261	2.8108	7.0800e-003	0.6736	4.6400e-003	0.6783	0.1787	4.2800e-003	0.1830		704.7504	704.7504	0.0228		705.3208

Total	0.5046	4.0814	3.5795	0.0173	0.9108	0.0165	0.9273	0.2470	0.0156	0.2626		1,771.043	1,771.0433	0.1013		1,773.575
												3				7

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	0.7923	10.7599	18.0957	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	0.7923	10.7599	18.0957	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.1248	3.8553	0.7687	0.0102	0.2271	0.0118	0.2389	0.0658	0.0113	0.0771		1,066.2929	1,066.2929	0.0785		1,068.2549
Worker	0.3798	0.2261	2.8108	7.0800e-003	0.6385	4.6400e-003	0.6431	0.1701	4.2800e-003	0.1743		704.7504	704.7504	0.0228		705.3208
Total	0.5046	4.0814	3.5795	0.0173	0.8656	0.0165	0.8820	0.2359	0.0156	0.2515		1,771.0433	1,771.0433	0.1013		1,773.5757

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	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6538	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0695	0.0414	0.5142	1.3000e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		128.9178	128.9178	4.1700e-003		129.0221
Total	0.0695	0.0414	0.5142	1.3000e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		128.9178	128.9178	4.1700e-003		129.0221

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	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7323	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0695	0.0414	0.5142	1.3000e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		128.9178	128.9178	4.1700e-003		129.0221
Total	0.0695	0.0414	0.5142	1.3000e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		128.9178	128.9178	4.1700e-003		129.0221

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	lb/day										lb/day					
Archit. Coating	38.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	39.1789	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.0741	0.0441	0.5485	1.3800e-003	0.1314	9.1000e-004	0.1323	0.0349	8.3000e-004	0.0357		137.5123	137.5123	4.4500e-003		137.6236
Total	0.0741	0.0441	0.5485	1.3800e-003	0.1314	9.1000e-004	0.1323	0.0349	8.3000e-004	0.0357		137.5123	137.5123	4.4500e-003		137.6236

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	38.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	39.1789	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000
Worker	0.0741	0.0441	0.5485	1.3800e-003	0.1246	9.1000e-004	0.1255	0.0332	8.3000e-004	0.0340		137.5123	137.5123	4.4500e-003	137.6236
Total	0.0741	0.0441	0.5485	1.3800e-003	0.1246	9.1000e-004	0.1255	0.0332	8.3000e-004	0.0340		137.5123	137.5123	4.4500e-003	137.6236

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	9.3303	63.6075	90.5976	0.3246	19.8890	0.3427	20.2316	5.3335	0.3239	5.6573		33,002.1677	33,002.1677	1.9371		33,050.5957
Unmitigated	9.3303	63.6075	90.5976	0.3246	19.8890	0.3427	20.2316	5.3335	0.3239	5.6573		33,002.1677	33,002.1677	1.9371		33,050.5957

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	2,890.40	716.80	124.00	7,006,755	7,006,755
Parking Lot	0.00	0.00	0.00		
Total	2,890.40	716.80	124.00	7,006,755	7,006,755

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	15.58	11.97	11.97	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.514295	0.033300	0.182894	0.110648	0.035005	0.006975	0.013104	0.092427	0.001351	0.001296	0.005878	0.001311	0.001516
Parking Lot	0.514295	0.033300	0.182894	0.110648	0.035005	0.006975	0.013104	0.092427	0.001351	0.001296	0.005878	0.001311	0.001516

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
	lb/day										lb/day					
NaturalGas Mitigated	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025
NaturalGas Unmitigated	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	2860.27	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025
Parking Lot	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		0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	2.86027	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025
Parking Lot	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		0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025

6.0 Area Detail

6.1 Mitigation Measures Area

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9774	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976
Unmitigated	2.2976	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976

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	0.5337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7599					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976
Total	2.2976	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976

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
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SubCategory	lb/day								lb/day						
	Architectural Coating	0.2135				0.0000	0.0000			0.0000	0.0000			0.0000	
Consumer Products	1.7599				0.0000	0.0000			0.0000	0.0000			0.0000		0.0000
Landscaping	4.0000e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004	0.0976
Total	1.9774	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004	0.0976

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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Dignity Mercy Medical Center Redding- Phase 1 - Shasta County, Winter

**Dignity Mercy Medical Center Redding- Phase 1
Shasta County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	80.00	1000sqft	7.51	80,000.00	0
Parking Lot	338.00	Space	3.04	135,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2021
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	128.34	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Revised based on project information

Land Use - Based on project information

Construction Phase -

Demolition -

Grading - Balanced onsite

Architectural Coating - Mitigation Measure will require low VOC paint

Energy Use -

Construction Off-road Equipment Mitigation - Shasta County AQMD SMM and BMM

Mobile Land Use Mitigation -

Area Mitigation - City of Redding Green Building Code VOC

Energy Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Vehicle Trips - trip lengths adjusted per GHD VMT study

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblLandUse	LotAcreage	1.84	7.51
tblProjectCharacteristics	CH4IntensityFactor	0	128.34
tblProjectCharacteristics	N2OIntensityFactor	0	0.002
tblVehicleTrips	CC_TL	7.30	11.97
tblVehicleTrips	CNW_TL	7.30	11.97
tblVehicleTrips	CW_TL	9.50	15.58

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					

2020	4.5382	50.2718	32.5951	0.0641	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	6,392.1483	6,392.1483	1.9478	0.0000	6,422.4971
2021	39.2439	21.6150	19.8488	0.0429	0.9108	0.9756	1.8864	0.2470	0.9174	1.1643	0.0000	4,195.3779	4,195.3779	0.7244	0.0000	4,213.4885
Maximum	39.2439	50.2718	32.5951	0.0641	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	6,392.1483	6,392.1483	1.9478	0.0000	6,422.4971

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.3507	22.1905	37.3594	0.0641	7.8635	0.1536	7.9266	4.2827	0.1522	4.3458	0.0000	6,392.1483	6,392.1483	1.9478	0.0000	6,422.4971
2021	39.2439	14.9428	21.3694	0.0429	0.8656	0.1290	0.9945	0.2359	0.1281	0.3639	0.0000	4,195.3779	4,195.3779	0.7244	0.0000	4,213.4885
Maximum	39.2439	22.1905	37.3594	0.0641	7.8635	0.1536	7.9266	4.2827	0.1522	4.3458	0.0000	6,392.1483	6,392.1483	1.9478	0.0000	6,422.4971

	ROG	NOx	CO	SO2	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	7.28	48.34	-11.98	0.00	54.36	91.10	59.99	55.77	90.47	64.20	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	lb/day										lb/day					
Area	2.2976	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976
Energy	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025

Mobile	7.1930	66.0583	82.8120	0.2958	19.8890	0.3495	20.2384	5.3335	0.3304	5.6638		30,115.3713	30,115.3713	2.0296		30,166.1103
Total	9.5214	66.3391	83.0904	0.2975	19.8890	0.3709	20.2599	5.3335	0.3518	5.6853		30,451.9656	30,451.9656	2.0363	6.1700e-003	30,504.7104

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	1.9774	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976
Energy	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025
Mobile	7.1930	66.0583	82.8120	0.2958	19.8890	0.3495	20.2384	5.3335	0.3304	5.6638		30,115.3713	30,115.3713	2.0296		30,166.1103
Total	9.2012	66.3391	83.0904	0.2975	19.8890	0.3709	20.2599	5.3335	0.3518	5.6853		30,451.9656	30,451.9656	2.0363	6.1700e-003	30,504.7104

	ROG	NOx	CO	SO2	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	3.36	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	1/1/2020	1/28/2020	5	20	
2	Site Preparation	Site Preparation	1/29/2020	2/11/2020	5	10	
3	Grading	Grading	2/12/2020	3/24/2020	5	30	
4	Building Construction	Building Construction	3/25/2020	5/18/2021	5	300	
5	Paving	Paving	5/19/2021	6/15/2021	5	20	
6	Architectural Coating	Architectural Coating	6/16/2021	7/13/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 3.04

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 120,000; Non-Residential Outdoor: 40,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	606.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	82.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6604	0.0000	6.6604	1.0085	0.0000	1.0085			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	6.6604	1.6587	8.3191	1.0085	1.5419	2.5504		3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.2468	8.5772	1.3015	0.0241	0.5307	0.0334	0.5640	0.1455	0.0319	0.1774		2,528.6438	2,528.6438	0.1519		2,532.4422
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	0.0661	0.0558	0.4776	1.1600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		115.7996	115.7996	4.0700e-003		115.9013
Total	0.3128	8.6329	1.7791	0.0253	0.6539	0.0342	0.6881	0.1782	0.0327	0.2109		2,644.4434	2,644.4434	0.1560		2,648.3435

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					2.8473	0.0000	2.8473	0.4312	0.0000	0.4312			0.0000			0.0000
Off-Road	0.5841	13.5576	24.6739	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	0.5841	13.5576	24.6739	0.0388	2.8473	0.0616	2.9090	0.4312	0.0616	0.4928	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
	Hauling	0.2468	8.5772	1.3015	0.0241	0.5067	0.0334	0.5400	0.1396	0.0319	0.1715	2,528.6438	2,528.6438	0.1519
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	0.0661	0.0558	0.4776	1.1600e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319	115.7996	115.7996	4.0700e-003	115.9013
Total	0.3128	8.6329	1.7791	0.0253	0.6235	0.0342	0.6577	0.1707	0.0327	0.2035	2,644.4434	2,644.4434	0.1560	2,648.3435

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	3,685.1016	3,685.1016	1.1918			3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	3,685.1016	3,685.1016	1.1918			3,714.8975

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.0793	0.0669	0.5731	1.4000e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402	138.9595	138.9595	4.8800e-003			139.0816

Total	0.0793	0.0669	0.5731	1.4000e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		138.9595	138.9595	4.8800e-003		139.0816
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000				0.0000
Off-Road	0.6967	12.1620	22.9600	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,685.1016	3,685.1016	1.1918			3,714.8975
Total	0.6967	12.1620	22.9600	0.0380	7.7233	0.0621	7.7854	4.2454	0.0621	4.3075	0.0000	3,685.1016	3,685.1016	1.1918			3,714.8975

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	0.0793	0.0669	0.5731	1.4000e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		138.9595	138.9595	4.8800e-003			139.0816
Total	0.0793	0.0669	0.5731	1.4000e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		138.9595	138.9595	4.8800e-003			139.0816

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	8.6733	2.1739	10.8472	3.5965	2.0000	5.5965		6,005.8653	6,005.8653	1.9424		6,054.4257

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	0.0881	0.0743	0.6368	1.5500e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		154.3995	154.3995	5.4200e-003		154.5351
Total	0.0881	0.0743	0.6368	1.5500e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		154.3995	154.3995	5.4200e-003		154.5351

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					3.7079	0.0000	3.7079	1.5375	0.0000	1.5375			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	1.0110	19.2707	36.7226	0.0620	3.7079	0.1015	3.8094	1.5375	0.1015	1.6390	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

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	0.0881	0.0743	0.6368	1.5500e-003	0.1557	1.1700e-003	0.1569	0.0415	1.0800e-003	0.0426		154.3995	154.3995	5.4200e-003		154.5351
Total	0.0881	0.0743	0.6368	1.5500e-003	0.1557	1.1700e-003	0.1569	0.0415	1.0800e-003	0.0426		154.3995	154.3995	5.4200e-003		154.5351

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	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.1579	4.2981	1.0455	9.9500e-003	0.2372	0.0241	0.2613	0.0683	0.0230	0.0913		1,039.7854	1,039.7854	0.0920			1,042.0854
Worker	0.3611	0.3047	2.6109	6.3600e-003	0.6736	4.7900e-003	0.6784	0.1787	4.4200e-003	0.1831		633.0378	633.0378	0.0222			633.5938
Total	0.5189	4.6029	3.6564	0.0163	0.9108	0.0288	0.9397	0.2470	0.0274	0.2744		1,672.8232	1,672.8232	0.1142			1,675.6792

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	0.8318	10.8224	18.1439	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345
Total	0.8318	10.8224	18.1439	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000	0.0000
Vendor	0.1579	4.2981	1.0455	9.9500e-003	0.2271	0.0241	0.2511	0.0658	0.0230	0.0888	1,039.7854	1,039.7854	0.0920		1,042.0854	
Worker	0.3611	0.3047	2.6109	6.3600e-003	0.6385	4.7900e-003	0.6433	0.1701	4.4200e-003	0.1745	633.0378	633.0378	0.0222		633.5938	
Total	0.5189	4.6029	3.6564	0.0163	0.8656	0.0288	0.8944	0.2359	0.0274	0.2633	1,672.8232	1,672.8232	0.1142		1,675.6792	

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	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	2,553.3639	2,553.3639	0.6160			2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	2,553.3639	2,553.3639	0.6160			2,568.7643

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	0.1319	3.9129	0.9218	9.8600e-003	0.2372	0.0123	0.2495	0.0683	0.0118	0.0801	1,030.9077	1,030.9077	0.0888			1,033.1281
Worker	0.3335	0.2700	2.3519	6.1400e-003	0.6736	4.6400e-003	0.6783	0.1787	4.2800e-003	0.1830	611.1063	611.1063	0.0196			611.5961

Total	0.4654	4.1829	3.2736	0.0160	0.9108	0.0170	0.9278	0.2470	0.0161	0.2631		1,642.014	1,642.0140	0.1084		1,644.724
												0				2

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	0.7923	10.7599	18.0957	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	0.7923	10.7599	18.0957	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.1319	3.9129	0.9218	9.8600e-003	0.2271	0.0123	0.2394	0.0658	0.0118	0.0776		1,030.9077	1,030.9077	0.0888		1,033.1281
Worker	0.3335	0.2700	2.3519	6.1400e-003	0.6385	4.6400e-003	0.6431	0.1701	4.2800e-003	0.1743		611.1063	611.1063	0.0196		611.5961
Total	0.4654	4.1829	3.2736	0.0160	0.8656	0.0170	0.8825	0.2359	0.0161	0.2519		1,642.0140	1,642.0140	0.1084		1,644.7242

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	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6538	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0610	0.0494	0.4302	1.1200e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		111.7877	111.7877	3.5800e-003		111.8773
Total	0.0610	0.0494	0.4302	1.1200e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		111.7877	111.7877	3.5800e-003		111.8773

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	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.3982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7323	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0610	0.0494	0.4302	1.1200e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		111.7877	111.7877	3.5800e-003		111.8773
Total	0.0610	0.0494	0.4302	1.1200e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		111.7877	111.7877	3.5800e-003		111.8773

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	lb/day										lb/day					
Archit. Coating	38.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	39.1789	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.0651	0.0527	0.4589	1.2000e-003	0.1314	9.1000e-004	0.1323	0.0349	8.3000e-004	0.0357		119.2403	119.2403	3.8200e-003		119.3358
Total	0.0651	0.0527	0.4589	1.2000e-003	0.1314	9.1000e-004	0.1323	0.0349	8.3000e-004	0.0357		119.2403	119.2403	3.8200e-003		119.3358

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	38.9600					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	39.1789	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000
Worker	0.0651	0.0527	0.4589	1.2000e-003	0.1246	9.1000e-004	0.1255	0.0332	8.3000e-004	0.0340		119.2403	119.2403	3.8200e-003	119.3358
Total	0.0651	0.0527	0.4589	1.2000e-003	0.1246	9.1000e-004	0.1255	0.0332	8.3000e-004	0.0340		119.2403	119.2403	3.8200e-003	119.3358

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	7.1930	66.0583	82.8120	0.2958	19.8890	0.3495	20.2384	5.3335	0.3304	5.6638		30,115.3713	30,115.3713	2.0296		30,166.1103
Unmitigated	7.1930	66.0583	82.8120	0.2958	19.8890	0.3495	20.2384	5.3335	0.3304	5.6638		30,115.3713	30,115.3713	2.0296		30,166.1103

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	2,890.40	716.80	124.00	7,006,755	7,006,755
Parking Lot	0.00	0.00	0.00		
Total	2,890.40	716.80	124.00	7,006,755	7,006,755

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	15.58	11.97	11.97	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.514295	0.033300	0.182894	0.110648	0.035005	0.006975	0.013104	0.092427	0.001351	0.001296	0.005878	0.001311	0.001516
Parking Lot	0.514295	0.033300	0.182894	0.110648	0.035005	0.006975	0.013104	0.092427	0.001351	0.001296	0.005878	0.001311	0.001516

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
	lb/day										lb/day					
NaturalGas Mitigated	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025
NaturalGas Unmitigated	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	2860.27	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025
Parking Lot	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		0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	2.86027	0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025
Parking Lot	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		0.0309	0.2804	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5028	336.5028	6.4500e-003	6.1700e-003	338.5025

6.0 Area Detail

6.1 Mitigation Measures Area

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9774	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976
Unmitigated	2.2976	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976

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	0.5337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7599					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976
Total	2.2976	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004		0.0976

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	0.2135				0.0000	0.0000			0.0000	0.0000			0.0000	
Consumer Products	1.7599				0.0000	0.0000			0.0000	0.0000			0.0000		0.0000
Landscaping	4.0000e-003	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004	0.0976
Total	1.9774	3.9000e-004	0.0428	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0915	0.0915	2.4000e-004	0.0976

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
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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
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Dignity Mercy Medical Center Redding- Phase 2 - Shasta County, Summer

**Dignity Mercy Medical Center Redding- Phase 2
Shasta County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	49.60	1000sqft	1.14	49,600.00	0
Parking Lot	211.00	Space	1.90	84,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	420.84	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per project information

Land Use - per project information

Construction Phase - Phase II construction only, building B & C and parking spaces, no demo or mass grading

Architectural Coating - Mitigation Measure require 100 VOC paint

Energy Use -

Water And Wastewater -

Construction Off-road Equipment Mitigation - Shasta County SMM and BMM

Mobile Land Use Mitigation -

Area Mitigation - Per City of Redding Green Building Code

Stationary Sources - Emergency Generators and Fire Pumps -

Grading -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	PhaseEndDate	1/9/2023	1/10/2023
tblConstructionPhase	PhaseEndDate	11/18/2022	11/21/2022
tblConstructionPhase	PhaseStartDate	12/15/2022	12/16/2022
tblConstructionPhase	PhaseStartDate	1/1/2022	1/4/2022
tblProjectCharacteristics	CO2IntensityFactor	641.35	420.84

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					
2022	27.0954	27.6025	31.2160	0.0581	0.7324	1.3071	2.0394	0.1976	1.2213	1.4190	0.0000	5,612.1055	5,612.1055	1.2438	0.0000	5,643.2011
2023	27.0796	1.3250	2.0963	3.7700e-003	0.0822	0.0714	0.1535	0.0218	0.0713	0.0931	0.0000	361.1526	361.1526	0.0190	0.0000	361.6281
Maximum	27.0954	27.6025	31.2160	0.0581	0.7324	1.3071	2.0394	0.1976	1.2213	1.4190	0.0000	5,612.1055	5,612.1055	1.2438	0.0000	5,643.2011

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					

2022	27.0954	21.0276	34.2636	0.0581	0.6956	0.1414	0.8370	0.1886	0.1408	0.3294	0.0000	5,612.1055	5,612.1055	1.2438	0.0000	5,643.2011
2023	27.0796	1.3250	2.0963	3.7700e-003	0.0779	0.0714	0.1492	0.0207	0.0713	0.0921	0.0000	361.1526	361.1526	0.0190	0.0000	361.6281
Maximum	27.0954	21.0276	34.2636	0.0581	0.6956	0.1414	0.8370	0.1886	0.1408	0.3294	0.0000	5,612.1055	5,612.1055	1.2438	0.0000	5,643.2011

	ROG	NOx	CO	SO2	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	22.73	-9.15	0.00	5.04	84.56	55.03	4.59	83.59	72.13	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4248	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608
Energy	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715
Mobile	4.0673	25.0209	31.0637	0.1267	7.5196	0.0932	7.6128	2.0153	0.0876	2.1029		12,924.6541	12,924.6541	0.7402		12,943.1597
Total	5.5112	25.1950	31.2363	0.1278	7.5196	0.1065	7.6261	2.0153	0.1009	2.1162		13,133.3429	13,133.3429	0.7444	3.8200e-003	13,153.0920

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	1.2262	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608

Energy	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715
Mobile	4.0673	25.0209	31.0637	0.1267	7.5196	0.0932	7.6128	2.0153	0.0876	2.1029		12,924.6541	12,924.6541	0.7402		12,943.1597
Total	5.3126	25.1950	31.2363	0.1278	7.5196	0.1065	7.6261	2.0153	0.1009	2.1162		13,133.3429	13,133.3429	0.7444	3.8200e-003	13,153.0920

	ROG	NOx	CO	SO2	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	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/4/2022	11/21/2022	5	230	
2	Paving	Paving	11/19/2022	12/14/2022	5	18	
3	Architectural Coating	Architectural Coating	12/16/2022	1/10/2023	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 74,400; Non-Residential Outdoor: 24,800; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42

Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	51.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0730	2.2903	0.4445	6.3600e-003	0.1491	6.4800e-003	0.1556	0.0429	6.2000e-003	0.0491		664.5401	664.5401	0.0472		665.7211
Worker	0.2187	0.1253	1.5903	4.2400e-003	0.4190	2.8000e-003	0.4218	0.1111	2.5800e-003	0.1137		422.4395	422.4395	0.0126		422.7532
Total	0.2917	2.4156	2.0349	0.0106	0.5681	9.2800e-003	0.5773	0.1541	8.7800e-003	0.1628		1,086.9797	1,086.9797	0.0598		1,088.4743

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	0.7664	10.7139	18.0727	0.0269		0.1018	0.1018		0.1018	0.1018	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	0.7664	10.7139	18.0727	0.0269		0.1018	0.1018		0.1018	0.1018	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0730	2.2903	0.4445	6.3600e-003	0.1427	6.4800e-003	0.1492	0.0414	6.2000e-003	0.0476		664.5401	664.5401	0.0472		665.7211
Worker	0.2187	0.1253	1.5903	4.2400e-003	0.3971	2.8000e-003	0.3999	0.1058	2.5800e-003	0.1084		422.4395	422.4395	0.0126		422.7532
Total	0.2917	2.4156	2.0349	0.0106	0.5398	9.2800e-003	0.5491	0.1471	8.7800e-003	0.1559		1,086.9797	1,086.9797	0.0598		1,088.4743

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.2766					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2531	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0858	0.0491	0.6237	1.6600e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		165.6626	165.6626	4.9200e-003		165.7856
Total	0.0858	0.0491	0.6237	1.6600e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		165.6626	165.6626	4.9200e-003		165.7856

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	0.2913	7.8490	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.2766					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5679	7.8490	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091

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	0.0858	0.0491	0.6237	1.6600e-003	0.1557	1.1000e-003	0.1568	0.0415	1.0100e-003	0.0425		165.6626	165.6626	4.9200e-003		165.7856
Total	0.0858	0.0491	0.6237	1.6600e-003	0.1557	1.1000e-003	0.1568	0.0415	1.0100e-003	0.0425		165.6626	165.6626	4.9200e-003		165.7856

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.8480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	27.0525	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.0429	0.0246	0.3118	8.3000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.1000e-004	0.0223		82.8313	82.8313	2.4600e-003		82.8928
Total	0.0429	0.0246	0.3118	8.3000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.1000e-004	0.0223		82.8313	82.8313	2.4600e-003		82.8928

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	26.8480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	27.0525	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.0429	0.0246	0.3118	8.3000e-004	0.0779	5.5000e-004	0.0784	0.0207	5.1000e-004	0.0212		82.8313	82.8313	2.4600e-003		82.8928
Total	0.0429	0.0246	0.3118	8.3000e-004	0.0779	5.5000e-004	0.0784	0.0207	5.1000e-004	0.0212		82.8313	82.8313	2.4600e-003		82.8928

3.4 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.8480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	27.0396	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0399	0.0220	0.2852	8.0000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		79.7045	79.7045	2.1800e-003		79.7591
Total	0.0399	0.0220	0.2852	8.0000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		79.7045	79.7045	2.1800e-003		79.7591

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	26.8480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	27.0396	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0399	0.0220	0.2852	8.0000e-004	0.0779	5.4000e-004	0.0784	0.0207	4.9000e-004	0.0212		79.7045	79.7045	2.1800e-003		79.7591
Total	0.0399	0.0220	0.2852	8.0000e-004	0.0779	5.4000e-004	0.0784	0.0207	4.9000e-004	0.0212		79.7045	79.7045	2.1800e-003		79.7591

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	4.0673	25.0209	31.0637	0.1267	7.5196	0.0932	7.6128	2.0153	0.0876	2.1029		12,924.6541	12,924.6541	0.7402		12,943.1597
Unmitigated	4.0673	25.0209	31.0637	0.1267	7.5196	0.0932	7.6128	2.0153	0.0876	2.1029		12,924.6541	12,924.6541	0.7402		12,943.1597

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

Medical Office Building	1,792.05	444.42	76.88	2,651,105	2,651,105
Parking Lot	0.00	0.00	0.00		
Total	1,792.05	444.42	76.88	2,651,105	2,651,105

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Parking Lot	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244

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
lb/day											lb/day					
NaturalGas Mitigated	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715
NaturalGas Unmitigated	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Medical Office Building	1773.37	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132			208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715
Parking Lot	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		0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132			208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Medical Office Building	1.77337	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132			208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715
Parking Lot	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		0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132			208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715

6.0 Area Detail

6.1 Mitigation Measures Area

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2262	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608
Unmitigated	1.4248	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608

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	0.3310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4600e-003	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608
Total	1.4248	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608

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	0.1324				0.0000	0.0000		0.0000	0.0000			0.0000	
Consumer Products	1.0913				0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Landscaping	2.4600e-003	2.4000e-004	0.0266	0.0000	9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004	0.0608
Total	1.2262	2.4000e-004	0.0266	0.0000	9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004	0.0608

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
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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
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Dignity Mercy Medical Center Redding- Phase 2 - Shasta County, Winter

**Dignity Mercy Medical Center Redding- Phase 2
Shasta County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	49.60	1000sqft	1.14	49,600.00	0
Parking Lot	211.00	Space	1.90	84,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	420.84	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Per project information

Land Use - per project information

Construction Phase - Phase II construction only, building B & C and parking spaces, no demo or mass grading

Architectural Coating - Mitigation Measure require 100 VOC paint

Energy Use -

Water And Wastewater -

Construction Off-road Equipment Mitigation - Shasta County SMM and BMM

Mobile Land Use Mitigation -

Area Mitigation - Per City of Redding Green Building Code

Stationary Sources - Emergency Generators and Fire Pumps -

Grading -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	PhaseEndDate	1/9/2023	1/10/2023
tblConstructionPhase	PhaseEndDate	11/18/2022	11/21/2022
tblConstructionPhase	PhaseStartDate	12/15/2022	12/16/2022
tblConstructionPhase	PhaseStartDate	1/1/2022	1/4/2022
tblProjectCharacteristics	CO2IntensityFactor	641.35	420.84

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					
2022	27.0903	27.6659	30.9338	0.0571	0.7324	1.3073	2.0397	0.1976	1.2216	1.4192	0.0000	5,511.7585	5,511.7585	1.2477	0.0000	5,542.9501
2023	27.0750	1.3292	2.0470	3.6600e-003	0.0822	0.0714	0.1535	0.0218	0.0713	0.0931	0.0000	350.5715	350.5715	0.0187	0.0000	351.0392
Maximum	27.0903	27.6659	30.9338	0.0571	0.7324	1.3073	2.0397	0.1976	1.2216	1.4192	0.0000	5,511.7585	5,511.7585	1.2477	0.0000	5,542.9501

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					

2022	27.0903	21.0911	33.9814	0.0571	0.6956	0.1417	0.8373	0.1886	0.1411	0.3297	0.0000	5,511.7585	5,511.7585	1.2477	0.0000	5,542.9501
2023	27.0750	1.3292	2.0470	3.6600e-003	0.0779	0.0714	0.1492	0.0207	0.0713	0.0921	0.0000	350.5715	350.5715	0.0187	0.0000	351.0392
Maximum	27.0903	21.0911	33.9814	0.0571	0.6956	0.1417	0.8373	0.1886	0.1411	0.3297	0.0000	5,511.7585	5,511.7585	1.2477	0.0000	5,542.9501

	ROG	NOx	CO	SO2	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	22.68	-9.24	0.00	5.04	84.55	55.02	4.59	83.57	72.11	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	lb/day										lb/day					
Area	1.4248	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608
Energy	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715
Mobile	2.9446	25.4858	29.8074	0.1153	7.5196	0.0940	7.6136	2.0153	0.0884	2.1037		11,765.4372	11,765.4372	0.7959		11,785.3348
Total	4.3885	25.6599	29.9801	0.1163	7.5196	0.1073	7.6269	2.0153	0.1017	2.1170		11,974.1260	11,974.1260	0.8001	3.8200e-003	11,995.2671

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	1.2262	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608

Energy	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715
Mobile	2.9446	25.4858	29.8074	0.1153	7.5196	0.0940	7.6136	2.0153	0.0884	2.1037		11,765.4372	11,765.4372	0.7959		11,785.3348
Total	4.1899	25.6599	29.9801	0.1163	7.5196	0.1073	7.6269	2.0153	0.1017	2.1170		11,974.1260	11,974.1260	0.8001	3.8200e-003	11,995.2671

	ROG	NOx	CO	SO2	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	4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/4/2022	11/21/2022	5	230	
2	Paving	Paving	11/19/2022	12/14/2022	5	18	
3	Architectural Coating	Architectural Coating	12/16/2022	1/10/2023	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 74,400; Non-Residential Outdoor: 24,800; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42

Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	51.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0772	2.3201	0.5348	6.1400e-003	0.1491	6.7700e-003	0.1559	0.0429	6.4800e-003	0.0494		642.3062	642.3062	0.0536		643.6456
Worker	0.1928	0.1494	1.3228	3.6800e-003	0.4190	2.8000e-003	0.4218	0.1111	2.5800e-003	0.1137		366.3301	366.3301	0.0108		366.5990
Total	0.2700	2.4695	1.8576	9.8200e-003	0.5681	9.5700e-003	0.5776	0.1541	9.0600e-003	0.1631		1,008.6363	1,008.6363	0.0643		1,010.2446

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	0.7664	10.7139	18.0727	0.0269		0.1018	0.1018		0.1018	0.1018	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	0.7664	10.7139	18.0727	0.0269		0.1018	0.1018		0.1018	0.1018	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0772	2.3201	0.5348	6.1400e-003	0.1427	6.7700e-003	0.1495	0.0414	6.4800e-003	0.0479		642.3062	642.3062	0.0536		643.6456
Worker	0.1928	0.1494	1.3228	3.6800e-003	0.3971	2.8000e-003	0.3999	0.1058	2.5800e-003	0.1084		366.3301	366.3301	0.0108		366.5990
Total	0.2700	2.4695	1.8576	9.8200e-003	0.5398	9.5700e-003	0.5494	0.1471	9.0600e-003	0.1562		1,008.6363	1,008.6363	0.0643		1,010.2446

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.2766					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2531	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0756	0.0586	0.5188	1.4400e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		143.6589	143.6589	4.2200e-003		143.7643
Total	0.0756	0.0586	0.5188	1.4400e-003	0.1643	1.1000e-003	0.1654	0.0436	1.0100e-003	0.0446		143.6589	143.6589	4.2200e-003		143.7643

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	0.2913	7.8490	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.2766					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5679	7.8490	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091

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	0.0756	0.0586	0.5188	1.4400e-003	0.1557	1.1000e-003	0.1568	0.0415	1.0100e-003	0.0425		143.6589	143.6589	4.2200e-003		143.7643
Total	0.0756	0.0586	0.5188	1.4400e-003	0.1557	1.1000e-003	0.1568	0.0415	1.0100e-003	0.0425		143.6589	143.6589	4.2200e-003		143.7643

3.4 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.8480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	27.0525	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.0378	0.0293	0.2594	7.2000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.1000e-004	0.0223		71.8294	71.8294	2.1100e-003		71.8822
Total	0.0378	0.0293	0.2594	7.2000e-004	0.0822	5.5000e-004	0.0827	0.0218	5.1000e-004	0.0223		71.8294	71.8294	2.1100e-003		71.8822

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	26.8480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	27.0525	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.0378	0.0293	0.2594	7.2000e-004	0.0779	5.5000e-004	0.0784	0.0207	5.1000e-004	0.0212		71.8294	71.8294	2.1100e-003		71.8822
Total	0.0378	0.0293	0.2594	7.2000e-004	0.0779	5.5000e-004	0.0784	0.0207	5.1000e-004	0.0212		71.8294	71.8294	2.1100e-003		71.8822

3.4 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.8480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	27.0396	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0353	0.0262	0.2359	6.9000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		69.1235	69.1235	1.8700e-003		69.1702
Total	0.0353	0.0262	0.2359	6.9000e-004	0.0822	5.4000e-004	0.0827	0.0218	4.9000e-004	0.0223		69.1235	69.1235	1.8700e-003		69.1702

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	26.8480					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	27.0396	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0353	0.0262	0.2359	6.9000e-004	0.0779	5.4000e-004	0.0784	0.0207	4.9000e-004	0.0212		69.1235	69.1235	1.8700e-003		69.1702
Total	0.0353	0.0262	0.2359	6.9000e-004	0.0779	5.4000e-004	0.0784	0.0207	4.9000e-004	0.0212		69.1235	69.1235	1.8700e-003		69.1702

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	2.9446	25.4858	29.8074	0.1153	7.5196	0.0940	7.6136	2.0153	0.0884	2.1037		11,765.4372	11,765.4372	0.7959		11,785.3348
Unmitigated	2.9446	25.4858	29.8074	0.1153	7.5196	0.0940	7.6136	2.0153	0.0884	2.1037		11,765.4372	11,765.4372	0.7959		11,785.3348

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

Medical Office Building	1,792.05	444.42	76.88	2,651,105	2,651,105
Parking Lot	0.00	0.00	0.00		
Total	1,792.05	444.42	76.88	2,651,105	2,651,105

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Parking Lot	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244

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
	lb/day										lb/day					
NaturalGas Mitigated	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715
NaturalGas Unmitigated	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132		208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Medical Office Building	1773.37	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132			208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715
Parking Lot	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		0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132			208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Medical Office Building	1.77337	0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132			208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715
Parking Lot	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		0.0191	0.1739	0.1460	1.0400e-003		0.0132	0.0132		0.0132	0.0132			208.6318	208.6318	4.0000e-003	3.8200e-003	209.8715

6.0 Area Detail

6.1 Mitigation Measures Area

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2262	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608
Unmitigated	1.4248	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608

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	0.3310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.4600e-003	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608
Total	1.4248	2.4000e-004	0.0266	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004		0.0608

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
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SubCategory	lb/day								lb/day					
	Architectural Coating	0.1324				0.0000	0.0000		0.0000	0.0000			0.0000	
Consumer Products	1.0913				0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Landscaping	2.4600e-003	2.4000e-004	0.0266	0.0000	9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004	0.0608
Total	1.2262	2.4000e-004	0.0266	0.0000	9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0570	0.0570	1.5000e-004	0.0608

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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Dignity Operational 2024 - Shasta County, Summer

Dignity Operational 2024
Shasta County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	130.00	1000sqft	2.98	130,000.00	0
Parking Lot	549.00	Space	4.94	219,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	128.34	CH4 Intensity (lb/MW hr)	0.002	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy intensity modified per report

Land Use -

Construction Phase - Operation run only

Off-road Equipment -

Energy Use -

Water And Wastewater - Adjusted to 2.35 MGAL and 1.50 MGAL per project-specifics

Land Use Change -

Sequestration -

Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	1.7958	0.0000	0.0000	1.6705	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	1.7958	0.0000	0.0000	1.6705	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	1.7958	0.0000	0.0000	1.6705	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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	lb/day										lb/day					
Area	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Energy	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Mobile	12.3692	79.7736	120.9045	0.4997	32.2952	0.3807	32.6759	8.6553	0.3580	9.0133		50,877.7682	50,877.7682	2.3300		50,936.0169

Stationary	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	22.7513	80.7382	138.5423	0.5047	32.2952	0.4520	32.7472	8.6553	0.4293	9.0846		51,846.3160	51,846.3160	3.2223	0.0100	51,929.8611

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	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Energy	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Mobile	11.3105	70.9797	96.4408	0.3959	24.4975	0.2961	24.7936	6.5655	0.2784	6.8439		40,344.1425	40,344.1425	2.0884		40,396.3533
Stationary	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	21.6926	71.9442	114.0786	0.4009	24.4975	0.3674	24.8649	6.5655	0.3497	6.9151		41,312.6903	41,312.6903	2.9808	0.0100	41,390.1975

	ROG	NOx	CO	SO2	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	4.65	10.89	17.66	20.57	24.15	18.71	24.07	24.15	18.55	23.88	0.00	20.32	20.32	7.50	0.00	20.30

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	4/9/2019	4/8/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.94

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	11.3105	70.9797	96.4408	0.3959	24.4975	0.2961	24.7936	6.5655	0.2784	6.8439		40,344.14 25	40,344.142 5	2.0884		40,396.35 33
Unmitigated	12.3692	79.7736	120.9045	0.4997	32.2952	0.3807	32.6759	8.6553	0.3580	9.0133		50,877.76 82	50,877.768 2	2.3300		50,936.01 69

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	4,696.90	1,164.80	201.50	11,385,977	8,636,812
Parking Lot	0.00	0.00	0.00		
Total	4,696.90	1,164.80	201.50	11,385,977	8,636,812

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
Medical Office Building	15.58	11.97	11.97	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Parking Lot	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244

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
	lb/day										lb/day					
NaturalGas Mitigated	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
NaturalGas Unmitigated	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	4647.95	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Parking Lot	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		0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	4.64795	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Parking Lot	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		0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665

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	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Unmitigated	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

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	0.8672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4200e-003	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Total	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

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	0.8672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Landscaping	6.4200e-003	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Total	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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	3	0.5	50	500	0.73	CNG

Boilers

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

Equipment Type	Number
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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	lb/day										lb/day					
Emergency Generator - CNG (500,000 HP)	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193

11.0 Vegetation

Dignity Operational 2024 - Shasta County, Winter

Dignity Operational 2024
Shasta County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	130.00	1000sqft	2.98	130,000.00	0
Parking Lot	549.00	Space	4.94	219,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	128.34	CH4 Intensity (lb/MW hr)	0.002	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy intensity modified per report

Land Use -

Construction Phase - Operation run only

Off-road Equipment -

Energy Use -

Water And Wastewater - Adjusted to 2.35 MGAL and 1.50 MGAL per project-specifics

Land Use Change -

Sequestration -

Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	1.7958	0.0000	0.0000	1.6705	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	1.7958	0.0000	0.0000	1.6705	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	1.7958	0.0000	0.0000	1.6705	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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	lb/day										lb/day					
Area	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Energy	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Mobile	9.3426	82.4797	109.2678	0.4558	32.2952	0.3830	32.6782	8.6553	0.3602	9.0155		46,461.5391	46,461.5391	2.4288		46,522.2579

Stationary	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	19.7247	83.4443	126.9056	0.4608	32.2952	0.4543	32.7495	8.6553	0.4315	9.0868		47,430.0868	47,430.0868	3.3211	0.0100	47,516.1021

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	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Energy	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Mobile	8.3360	72.7641	89.9735	0.3606	24.4975	0.2984	24.7959	6.5655	0.2805	6.8460		36,781.5974	36,781.5974	2.2164		36,837.0082
Stationary	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	18.7181	73.7286	107.6113	0.3656	24.4975	0.3697	24.8672	6.5655	0.3518	6.9173		37,750.1452	37,750.1452	3.1088	0.0100	37,830.8524

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	5.10	11.64	15.20	20.66	24.15	18.62	24.07	24.15	18.46	23.88	0.00	20.41	20.41	6.39	0.00	20.38

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	4/9/2019	4/8/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 4.94

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	8.3360	72.7641	89.9735	0.3606	24.4975	0.2984	24.7959	6.5655	0.2805	6.8460		36,781.5974	36,781.5974	2.2164		36,837.0082
Unmitigated	9.3426	82.4797	109.2678	0.4558	32.2952	0.3830	32.6782	8.6553	0.3602	9.0155		46,461.5391	46,461.5391	2.4288		46,522.2579

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	4,696.90	1,164.80	201.50	11,385,977	8,636,812
Parking Lot	0.00	0.00	0.00		
Total	4,696.90	1,164.80	201.50	11,385,977	8,636,812

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
Medical Office Building	15.58	11.97	11.97	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Parking Lot	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244

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
	lb/day										lb/day					
NaturalGas Mitigated	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
NaturalGas Unmitigated	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	4647.95	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Parking Lot	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		0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	4.64795	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Parking Lot	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		0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665

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	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Unmitigated	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

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	0.8672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4200e-003	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Total	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

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	0.8672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Landscaping	6.4200e-003	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Total	3.7334	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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	3	0.5	50	500	0.73	CNG

Boilers

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

Equipment Type	Number
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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	lb/day										lb/day					
Emergency Generator - CNG (500,000 HP)	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193

11.0 Vegetation

Dignity Alternative (GP-Zoning) - Shasta County, Winter

Dignity Alternative (GP-Zoning)
Shasta County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	95.40	1000sqft	2.19	95,400.00	0
Parking Lot	600.00	Space	5.40	240,000.00	0
High Turnover (Sit Down Restaurant)	10.80	1000sqft	0.25	10,800.00	0
Strip Mall	28.40	1000sqft	0.65	28,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	128.34	CH4 Intensity (lb/MW hr)	0.002	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy intensity modified per report

Land Use -

Construction Phase -

Off-road Equipment -

Demolition - 6,129 tons of bldg and pavement removal

Vehicle Trips - Trip length per GHD VMT study

Energy Use -

Water And Wastewater - Adjusted to 2.35 MGAL and 1.50 MGAL per project-specifics

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - dust control measures

Mobile Land Use Mitigation - 0.83 mile to Priority Development Area. 1.5 miles to Downtown Transfer Station. Improved Ped network.

Waste Mitigation - State requirement for 75 percent diversion by 2020

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblProjectCharacteristics	CH4IntensityFactor	0	0.002
tblProjectCharacteristics	CO2IntensityFactor	0	128.34
tblProjectCharacteristics	N2OIntensityFactor	0	0.002
tblVehicleTrips	CC_TL	7.30	11.17
tblVehicleTrips	CC_TL	7.30	11.17
tblVehicleTrips	CC_TL	7.30	11.17
tblVehicleTrips	CC_TL	7.30	11.17
tblVehicleTrips	CNW_TL	7.30	11.17
tblVehicleTrips	CNW_TL	7.30	11.17
tblVehicleTrips	CNW_TL	7.30	11.17
tblVehicleTrips	CNW_TL	7.30	11.17
tblVehicleTrips	CW_TL	9.50	14.54
tblVehicleTrips	CW_TL	9.50	14.54
tblVehicleTrips	CW_TL	9.50	14.54
tblVehicleTrips	CW_TL	9.50	14.54
tblVehicleTrips	WD_TR	11.42	15.12
tblVehicleTrips	WD_TR	44.32	42.61

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					
2020	4.1557	42.4842	23.5323	0.0641	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	6,392.1483	6,392.1483	1.2140	0.0000	6,422.4971
2021	164.6476	24.7291	22.3405	0.0550	1.6046	0.9883	2.5929	0.4350	0.9294	1.3644	0.0000	5,430.7036	5,430.7036	0.8054	0.0000	5,450.8399
Maximum	164.6476	42.4842	23.5323	0.0641	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	6,392.1483	6,392.1483	1.2140	0.0000	6,422.4971

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1557	42.4842	23.5323	0.0641	7.8635	2.1985	10.0620	4.2827	2.0226	6.3053	0.0000	6,392.1483	6,392.1483	1.2140	0.0000	6,422.4971
2021	164.6476	24.7291	22.3405	0.0550	1.5248	0.9883	2.5131	0.4154	0.9294	1.3448	0.0000	5,430.7036	5,430.7036	0.8054	0.0000	5,450.8399
Maximum	164.6476	42.4842	23.5323	0.0641	7.8635	2.1985	10.0620	4.2827	2.0226	6.3053	0.0000	6,392.1483	6,392.1483	1.2140	0.0000	6,422.4971

	ROG	NOx	CO	SO2	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	52.63	0.00	45.34	54.85	0.00	42.73	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	lb/day										lb/day						
Area	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004			0.1713
Energy	0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0293	0.0281		1,540.0009
Mobile	7.9613	69.6950	87.7555	0.3556	24.4446	0.2955	24.7401	6.5513	0.2778	6.8292		36,263.0159	36,263.0159	2.1048			36,315.6368
Total	11.9744	70.9714	88.9021	0.3632	24.4446	0.3927	24.8373	6.5513	0.3751	6.9264		37,794.0801	37,794.0801	2.1346	0.0281		37,855.8090

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	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004			0.1713
Energy	0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0293	0.0281		1,540.0009
Mobile	7.1994	62.3411	73.1514	0.2835	18.5424	0.2315	18.7739	4.9695	0.2176	5.1871		28,936.1602	28,936.1602	1.9441			28,984.7634
Total	11.2124	63.6176	74.2980	0.2912	18.5424	0.3287	18.8711	4.9695	0.3148	5.2843		30,467.2245	30,467.2245	1.9739	0.0281		30,524.9356

	ROG	NOx	CO	SO2	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	6.36	10.36	16.43	19.84	24.15	16.30	24.02	24.15	16.07	23.71	0.00	19.39	19.39	7.53	0.00	19.37

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	1/1/2020	1/28/2020	5	20	
2	Site Preparation	Site Preparation	1/29/2020	2/11/2020	5	10	
3	Grading	Grading	2/12/2020	3/10/2020	5	20	
4	Building Construction	Building Construction	3/11/2020	1/26/2021	5	230	
5	Paving	Paving	1/27/2021	2/23/2021	5	20	
6	Architectural Coating	Architectural Coating	2/24/2021	3/23/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 5.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 201,900; Non-Residential Outdoor: 67,300; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	606.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	145.00	61.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	29.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					6.6604	0.0000	6.6604	1.0085	0.0000	1.0085			0.0000			0.0000

Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	6.6604	1.6587	8.3191	1.0085	1.5419	2.5504		3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.2468	8.5772	1.3015	0.0241	0.5307	0.0334	0.5640	0.1455	0.0319	0.1774		2,528.6438	2,528.6438	0.1519		2,532.4422
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	0.0661	0.0558	0.4776	1.1600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		115.7996	115.7996	4.0700e-003		115.9013
Total	0.3128	8.6329	1.7791	0.0253	0.6539	0.0342	0.6881	0.1782	0.0327	0.2109		2,644.4434	2,644.4434	0.1560		2,648.3435

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					2.8473	0.0000	2.8473	0.4312	0.0000	0.4312			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	2.8473	1.6587	4.5060	0.4312	1.5419	1.9730	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.2468	8.5772	1.3015	0.0241	0.5067	0.0334	0.5400	0.1396	0.0319	0.1715		2,528.6438	2,528.6438	0.1519		2,532.4422
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	0.0661	0.0558	0.4776	1.1600e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		115.7996	115.7996	4.0700e-003		115.9013
Total	0.3128	8.6329	1.7791	0.0253	0.6235	0.0342	0.6577	0.1707	0.0327	0.2035		2,644.4434	2,644.4434	0.1560		2,648.3435

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0793	0.0669	0.5731	1.4000e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		138.9595	138.9595	4.8800e-003		139.0816
Total	0.0793	0.0669	0.5731	1.4000e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		138.9595	138.9595	4.8800e-003		139.0816

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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000				0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918			3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.7233	2.1974	9.9207	4.2454	2.0216	6.2670	0.0000	3,685.1016	3,685.1016	1.1918			3,714.8975

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	0.0793	0.0669	0.5731	1.4000e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		138.9595	138.9595	4.8800e-003		139.0816
Total	0.0793	0.0669	0.5731	1.4000e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		138.9595	138.9595	4.8800e-003		139.0816

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.0661	0.0558	0.4776	1.1600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		115.7996	115.7996	4.0700e-003		115.9013
Total	0.0661	0.0558	0.4776	1.1600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		115.7996	115.7996	4.0700e-003		115.9013

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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.8011	1.2734	4.0746	1.4396	1.1716	2.6112	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.0661	0.0558	0.4776	1.1600e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		115.7996	115.7996	4.0700e-003		115.9013
Total	0.0661	0.0558	0.4776	1.1600e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		115.7996	115.7996	4.0700e-003		115.9013

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	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2751	7.4911	1.8221	0.0173	0.4134	0.0419	0.4553	0.1190	0.0401	0.1591		1,812.1975	1,812.1975	0.1603		1,816.2060
Worker	0.6385	0.5389	4.6168	0.0113	1.1911	8.4800e-003	1.1996	0.3160	7.8100e-003	0.3238		1,119.3961	1,119.3961	0.0393		1,120.3793
Total	0.9136	8.0299	6.4389	0.0286	1.6046	0.0504	1.6549	0.4350	0.0479	0.4829		2,931.5935	2,931.5935	0.1997		2,936.5853

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.2751	7.4911	1.8221	0.0173	0.3958	0.0419	0.4377	0.1147	0.0401	0.1548		1,812.1975	1,812.1975	0.1603		1,816.2060
Worker	0.6385	0.5389	4.6168	0.0113	1.1290	8.4800e-003	1.1375	0.3007	7.8100e-003	0.3085		1,119.3961	1,119.3961	0.0393		1,120.3793
Total	0.9136	8.0299	6.4389	0.0286	1.5248	0.0504	1.5752	0.4154	0.0479	0.4633		2,931.5935	2,931.5935	0.1997		2,936.5853

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	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0000	0.0000
Vendor	0.2299	6.8196	1.6065	0.0172	0.4134	0.0215	0.4349	0.1190	0.0206	0.1396		1,796.7249	1,796.7249	0.1548		1,800.5947
Worker	0.5897	0.4774	4.1588	0.0109	1.1911	8.2100e-003	1.1994	0.3160	7.5600e-003	0.3235		1,080.6149	1,080.6149	0.0346		1,081.4810
Total	0.8196	7.2970	5.7653	0.0280	1.6046	0.0297	1.6343	0.4350	0.0281	0.4631		2,877.3397	2,877.3397	0.1894		2,882.0757

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.2299	6.8196	1.6065	0.0172	0.3958	0.0215	0.4173	0.1147	0.0206	0.1353		1,796.7249	1,796.7249	0.1548		1,800.5947
Worker	0.5897	0.4774	4.1588	0.0109	1.1290	8.2100e-003	1.1372	0.3007	7.5600e-003	0.3083		1,080.6149	1,080.6149	0.0346		1,081.4810
Total	0.8196	7.2970	5.7653	0.0280	1.5248	0.0297	1.5545	0.4154	0.0281	0.4435		2,877.3397	2,877.3397	0.1894		2,882.0757

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	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9630	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0610	0.0494	0.4302	1.1200e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		111.7877	111.7877	3.5800e-003		111.8773
Total	0.0610	0.0494	0.4302	1.1200e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		111.7877	111.7877	3.5800e-003		111.8773

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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9630	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0610	0.0494	0.4302	1.1200e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		111.7877	111.7877	3.5800e-003		111.8773
Total	0.0610	0.0494	0.4302	1.1200e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		111.7877	111.7877	3.5800e-003		111.8773

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	lb/day										lb/day					
Archit. Coating	164.3108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	164.5297	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.1179	0.0955	0.8318	2.1700e-003	0.2382	1.6400e-003	0.2399	0.0632	1.5100e-003	0.0647		216.1230	216.1230	6.9300e-003		216.2962
Total	0.1179	0.0955	0.8318	2.1700e-003	0.2382	1.6400e-003	0.2399	0.0632	1.5100e-003	0.0647		216.1230	216.1230	6.9300e-003		216.2962

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	164.3108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	164.5297	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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	0.1179	0.0955	0.8318	2.1700e-003	0.2258	1.6400e-003	0.2275	0.0601	1.5100e-003	0.0617		216.1230	216.1230	6.9300e-003		216.2962
Total	0.1179	0.0955	0.8318	2.1700e-003	0.2258	1.6400e-003	0.2275	0.0601	1.5100e-003	0.0617		216.1230	216.1230	6.9300e-003		216.2962

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	7.1994	62.3411	73.1514	0.2835	18.5424	0.2315	18.7739	4.9695	0.2176	5.1871		28,936.1602	28,936.1602	1.9441		28,984.7634
Unmitigated	7.9613	69.6950	87.7555	0.3556	24.4446	0.2955	24.7401	6.5513	0.2778	6.8292		36,263.0159	36,263.0159	2.1048		36,315.6368

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High Turnover (Sit Down Restaurant)	1,373.22	1,710.40	1423.87	2,524,542	1,914,986
Office Park	1,442.45	156.46	72.50	4,076,400	3,092,146
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,210.12	1,193.94	580.21	2,631,011	1,995,749
Total	4,025.79	3,060.79	2,076.59	9,231,952	7,002,881

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
High Turnover (Sit Down Restaurant)	14.54	11.17	11.17	8.50	72.50	19.00	37	20	43
Office Park	14.54	11.17	11.17	33.00	48.00	19.00	82	15	3
Parking Lot	14.54	11.17	11.17	0.00	0.00	0.00	0	0	0
Strip Mall	14.54	11.17	11.17	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
High Turnover (Sit Down Restaurant)	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Office Park	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Parking Lot	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Strip Mall	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244

5.0 Energy Detail

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	0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0293	0.0281	1,540.0009
NaturalGas Unmitigated	0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0293	0.0281	1,540.0009

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					
High Turnover (Sit Down Restaurant)	6226.13	0.0671	0.6104	0.5127	3.6600e-003		0.0464	0.0464		0.0464	0.0464		732.4854	732.4854	0.0140	0.0134	736.8382
Office Park	5954.01	0.0642	0.5837	0.4903	3.5000e-003		0.0444	0.0444		0.0444	0.0444		700.4712	700.4712	0.0134	0.0128	704.6338
Parking Lot	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
Strip Mall	832.548	8.9800e-003	0.0816	0.0686	4.9000e-004		6.2000e-003	6.2000e-003		6.2000e-003	6.2000e-003		97.9468	97.9468	1.8800e-003	1.8000e-003	98.5289
Total		0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0294	0.0281	1,540.0009

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					
High Turnover (Sit Down Restaurant)	6.22613	0.0671	0.6104	0.5127	3.6600e-003		0.0464	0.0464		0.0464	0.0464		732.4854	732.4854	0.0140	0.0134	736.8382

Office Park	5.95401	0.0642	0.5837	0.4903	3.5000e-003		0.0444	0.0444		0.0444	0.0444		700.4712	700.4712	0.0134	0.0128	704.6338
Parking Lot	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
Strip Mall	0.832548	8.9800e-003	0.0816	0.0686	4.9000e-004		6.2000e-003	6.2000e-003		6.2000e-003	6.2000e-003		97.9468	97.9468	1.8800e-003	1.8000e-003	98.5289
Total		0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0294	0.0281	1,540.0009

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	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004		0.1713
Unmitigated	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004		0.1713

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	0.9003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	2.9655					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Landscaping	6.9500e-003	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004	0.1713
Total	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004	0.1713

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	0.9003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9655					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.9500e-003	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004		0.1713
Total	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004		0.1713

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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	0	0	0	0	0.73	

Boilers

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

Equipment Type	Number
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11.0 Vegetation

Dignity Alternative (GP-Zoning) - Shasta County, Summer

Dignity Alternative (GP-Zoning)
Shasta County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	95.40	1000sqft	2.19	95,400.00	0
Parking Lot	600.00	Space	5.40	240,000.00	0
High Turnover (Sit Down Restaurant)	10.80	1000sqft	0.25	10,800.00	0
Strip Mall	28.40	1000sqft	0.65	28,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	128.34	CH4 Intensity (lb/MW hr)	0.002	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy intensity modified per report

Land Use -

Construction Phase -

Off-road Equipment -

Demolition - 6,129 tons of bldg and pavement removal

Vehicle Trips - Trip length per GHD VMT study

Energy Use -

Water And Wastewater - Adjusted to 2.35 MGAL and 1.50 MGAL per project-specifics

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - dust control measures

Mobile Land Use Mitigation - 0.83 mile to Priority Development Area. 1.5 miles to Downtown Transfer Station. Improved Ped network.

Waste Mitigation - State requirement for 75 percent diversion by 2020

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblProjectCharacteristics	CH4IntensityFactor	0	0.002
tblProjectCharacteristics	CO2IntensityFactor	0	128.34
tblProjectCharacteristics	N2OIntensityFactor	0	0.002
tblVehicleTrips	CC_TL	7.30	11.17
tblVehicleTrips	CC_TL	7.30	11.17
tblVehicleTrips	CC_TL	7.30	11.17
tblVehicleTrips	CC_TL	7.30	11.17
tblVehicleTrips	CNW_TL	7.30	11.17
tblVehicleTrips	CNW_TL	7.30	11.17
tblVehicleTrips	CNW_TL	7.30	11.17
tblVehicleTrips	CNW_TL	7.30	11.17
tblVehicleTrips	CW_TL	9.50	14.54
tblVehicleTrips	CW_TL	9.50	14.54
tblVehicleTrips	CW_TL	9.50	14.54
tblVehicleTrips	CW_TL	9.50	14.54
tblVehicleTrips	WD_TR	11.42	15.12
tblVehicleTrips	WD_TR	44.32	42.61

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					
2020	4.1670	42.4733	23.8758	0.0649	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	6,469.8939	6,469.8939	1.1975	0.0000	6,499.8210
2021	164.6640	24.5512	22.8853	0.0572	1.6046	0.9875	2.5920	0.4350	0.9286	1.3636	0.0000	5,657.9651	5,657.9651	0.7931	0.0000	5,677.7935
Maximum	164.6640	42.4733	23.8758	0.0649	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	6,469.8939	6,469.8939	1.1975	0.0000	6,499.8210

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1670	42.4733	23.8758	0.0649	7.8635	2.1985	10.0620	4.2827	2.0226	6.3053	0.0000	6,469.8939	6,469.8939	1.1975	0.0000	6,499.8210
2021	164.6640	24.5512	22.8853	0.0572	1.5248	0.9875	2.5123	0.4154	0.9286	1.3440	0.0000	5,657.9651	5,657.9651	0.7931	0.0000	5,677.7935
Maximum	164.6640	42.4733	23.8758	0.0649	7.8635	2.1985	10.0620	4.2827	2.0226	6.3053	0.0000	6,469.8939	6,469.8939	1.1975	0.0000	6,499.8210

	ROG	NOx	CO	SO2	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	52.63	0.00	45.34	54.85	0.00	42.73	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	lb/day										lb/day						
Area	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004			0.1713
Energy	0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0293	0.0281		1,540.0009
Mobile	10.7357	67.8379	94.8825	0.3902	24.4446	0.2934	24.7380	6.5513	0.2758	6.8271		39,757.1657	39,757.1657	1.9923			39,806.9721
Total	14.7487	69.1143	96.0291	0.3979	24.4446	0.3906	24.8352	6.5513	0.3731	6.9244		41,288.2299	41,288.2299	2.0220	0.0281		41,347.1443

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	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004			0.1713
Energy	0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0293	0.0281		1,540.0009
Mobile	9.9343	61.1816	76.3657	0.3117	18.5424	0.2294	18.7718	4.9695	0.2156	5.1850		31,784.1471	31,784.1471	1.8095			31,829.3833
Total	13.9474	62.4581	77.5123	0.3193	18.5424	0.3266	18.8690	4.9695	0.3128	5.2823		33,315.2113	33,315.2113	1.8392	0.0281		33,369.5555

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	5.43	9.63	19.28	19.75	24.15	16.39	24.02	24.15	16.16	23.71	0.00	19.31	19.31	9.04	0.00	19.29

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	1/1/2020	1/28/2020	5	20	
2	Site Preparation	Site Preparation	1/29/2020	2/11/2020	5	10	
3	Grading	Grading	2/12/2020	3/10/2020	5	20	
4	Building Construction	Building Construction	3/11/2020	1/26/2021	5	230	
5	Paving	Paving	1/27/2021	2/23/2021	5	20	
6	Architectural Coating	Architectural Coating	2/24/2021	3/23/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 5.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 201,900; Non-Residential Outdoor: 67,300; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	606.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	145.00	61.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	29.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6604	0.0000	6.6604	1.0085	0.0000	1.0085			0.0000			0.0000

Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	6.6604	1.6587	8.3191	1.0085	1.5419	2.5504		3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.2380	8.3123	1.1412	0.0247	0.5307	0.0326	0.5633	0.1455	0.0311	0.1767		2,588.6422	2,588.6422	0.1344		2,592.0022
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	0.0754	0.0467	0.5680	1.3400e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		133.5469	133.5469	4.7300e-003		133.6652
Total	0.3134	8.3589	1.7092	0.0260	0.6539	0.0334	0.6874	0.1782	0.0320	0.2102		2,722.1890	2,722.1890	0.1391		2,725.6674

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					2.8473	0.0000	2.8473	0.4312	0.0000	0.4312			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	2.8473	1.6587	4.5060	0.4312	1.5419	1.9730	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.2380	8.3123	1.1412	0.0247	0.5067	0.0326	0.5392	0.1396	0.0311	0.1708		2,588.6422	2,588.6422	0.1344		2,592.0022
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	0.0754	0.0467	0.5680	1.3400e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		133.5469	133.5469	4.7300e-003		133.6652
Total	0.3134	8.3589	1.7092	0.0260	0.6235	0.0334	0.6569	0.1707	0.0320	0.2027		2,722.1890	2,722.1890	0.1391		2,725.6674

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

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	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
Worker	0.0905	0.0560	0.6816	1.6100e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		160.2562	160.2562	5.6800e-003	160.3982
Total	0.0905	0.0560	0.6816	1.6100e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		160.2562	160.2562	5.6800e-003	160.3982

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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.7233	2.1974	9.9207	4.2454	2.0216	6.2670	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0905	0.0560	0.6816	1.6100e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		160.2562	160.2562	5.6800e-003		160.3982
Total	0.0905	0.0560	0.6816	1.6100e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		160.2562	160.2562	5.6800e-003		160.3982

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.0754	0.0467	0.5680	1.3400e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		133.5469	133.5469	4.7300e-003		133.6652
Total	0.0754	0.0467	0.5680	1.3400e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		133.5469	133.5469	4.7300e-003		133.6652

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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.8011	1.2734	4.0746	1.4396	1.1716	2.6112	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.0754	0.0467	0.5680	1.3400e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		133.5469	133.5469	4.7300e-003		133.6652
Total	0.0754	0.0467	0.5680	1.3400e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		133.5469	133.5469	4.7300e-003		133.6652

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	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2621	7.3548	1.5363	0.0179	0.4134	0.0410	0.4544	0.1190	0.0392	0.1582		1,874.0013	1,874.0013	0.1421		1,877.5529
Worker	0.7288	0.4510	5.4909	0.0130	1.1911	8.4800e-003	1.1996	0.3160	7.8100e-003	0.3238		1,290.9530	1,290.9530	0.0457		1,292.0965
Total	0.9910	7.8057	7.0273	0.0309	1.6046	0.0494	1.6540	0.4350	0.0470	0.4820		3,164.9543	3,164.9543	0.1878		3,169.6494

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.2621	7.3548	1.5363	0.0179	0.3958	0.0410	0.4367	0.1147	0.0392	0.1539		1,874.0013	1,874.0013	0.1421		1,877.5529
Worker	0.7288	0.4510	5.4909	0.0130	1.1290	8.4800e-003	1.1375	0.3007	7.8100e-003	0.3085		1,290.9530	1,290.9530	0.0457		1,292.0965
Total	0.9910	7.8057	7.0273	0.0309	1.5248	0.0494	1.5742	0.4154	0.0470	0.4624		3,164.9543	3,164.9543	0.1878		3,169.6494

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	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0000	0.0000
Vendor	0.2176	6.7193	1.3397	0.0178	0.4134	0.0206	0.4341	0.1190	0.0197	0.1388		1,858.3962	1,858.3962	0.1368		1,861.8156
Worker	0.6716	0.3998	4.9704	0.0125	1.1911	8.2100e-003	1.1994	0.3160	7.5600e-003	0.3235		1,246.2050	1,246.2050	0.0404		1,247.2137
Total	0.8891	7.1191	6.3101	0.0303	1.6046	0.0289	1.6334	0.4350	0.0273	0.4623		3,104.6012	3,104.6012	0.1771		3,109.0293

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.2176	6.7193	1.3397	0.0178	0.3958	0.0206	0.4164	0.1147	0.0197	0.1345		1,858.3962	1,858.3962	0.1368		1,861.8156
Worker	0.6716	0.3998	4.9704	0.0125	1.1290	8.2100e-003	1.1372	0.3007	7.5600e-003	0.3083		1,246.2050	1,246.2050	0.0404		1,247.2137
Total	0.8891	7.1191	6.3101	0.0303	1.5248	0.0289	1.5536	0.4154	0.0273	0.4427		3,104.6012	3,104.6012	0.1771		3,109.0293

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	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9630	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0695	0.0414	0.5142	1.3000e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		128.9178	128.9178	4.1700e-003		129.0221
Total	0.0695	0.0414	0.5142	1.3000e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		128.9178	128.9178	4.1700e-003		129.0221

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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9630	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0695	0.0414	0.5142	1.3000e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		128.9178	128.9178	4.1700e-003		129.0221
Total	0.0695	0.0414	0.5142	1.3000e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		128.9178	128.9178	4.1700e-003		129.0221

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	lb/day										lb/day					
Archit. Coating	164.3108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	164.5297	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.1343	0.0800	0.9941	2.5000e-003	0.2382	1.6400e-003	0.2399	0.0632	1.5100e-003	0.0647		249.2410	249.2410	8.0700e-003		249.4427
Total	0.1343	0.0800	0.9941	2.5000e-003	0.2382	1.6400e-003	0.2399	0.0632	1.5100e-003	0.0647		249.2410	249.2410	8.0700e-003		249.4427

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	164.3108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	164.5297	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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	0.1343	0.0800	0.9941	2.5000e-003	0.2258	1.6400e-003	0.2275	0.0601	1.5100e-003	0.0617		249.2410	249.2410	8.0700e-003		249.4427
Total	0.1343	0.0800	0.9941	2.5000e-003	0.2258	1.6400e-003	0.2275	0.0601	1.5100e-003	0.0617		249.2410	249.2410	8.0700e-003		249.4427

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	9.9343	61.1816	76.3657	0.3117	18.5424	0.2294	18.7718	4.9695	0.2156	5.1850		31,784.1471	31,784.1471	1.8095		31,829.3833
Unmitigated	10.7357	67.8379	94.8825	0.3902	24.4446	0.2934	24.7380	6.5513	0.2758	6.8271		39,757.1657	39,757.1657	1.9923		39,806.9721

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High Turnover (Sit Down Restaurant)	1,373.22	1,710.40	1423.87	2,524,542	1,914,986
Office Park	1,442.45	156.46	72.50	4,076,400	3,092,146
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,210.12	1,193.94	580.21	2,631,011	1,995,749
Total	4,025.79	3,060.79	2,076.59	9,231,952	7,002,881

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
High Turnover (Sit Down Restaurant)	14.54	11.17	11.17	8.50	72.50	19.00	37	20	43
Office Park	14.54	11.17	11.17	33.00	48.00	19.00	82	15	3
Parking Lot	14.54	11.17	11.17	0.00	0.00	0.00	0	0	0
Strip Mall	14.54	11.17	11.17	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
High Turnover (Sit Down Restaurant)	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Office Park	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Parking Lot	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Strip Mall	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244

5.0 Energy Detail

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	0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0293	0.0281	1,540.0009
NaturalGas Unmitigated	0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0293	0.0281	1,540.0009

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					
High Turnover (Sit Down Restaurant)	6226.13	0.0671	0.6104	0.5127	3.6600e-003		0.0464	0.0464		0.0464	0.0464		732.4854	732.4854	0.0140	0.0134	736.8382
Office Park	5954.01	0.0642	0.5837	0.4903	3.5000e-003		0.0444	0.0444		0.0444	0.0444		700.4712	700.4712	0.0134	0.0128	704.6338
Parking Lot	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
Strip Mall	832.548	8.9800e-003	0.0816	0.0686	4.9000e-004		6.2000e-003	6.2000e-003		6.2000e-003	6.2000e-003		97.9468	97.9468	1.8800e-003	1.8000e-003	98.5289
Total		0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0294	0.0281	1,540.0009

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					
High Turnover (Sit Down Restaurant)	6.22613	0.0671	0.6104	0.5127	3.6600e-003		0.0464	0.0464		0.0464	0.0464		732.4854	732.4854	0.0140	0.0134	736.8382

Office Park	5.95401	0.0642	0.5837	0.4903	3.5000e-003		0.0444	0.0444		0.0444	0.0444		700.4712	700.4712	0.0134	0.0128	704.6338
Parking Lot	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
Strip Mall	0.832548	8.9800e-003	0.0816	0.0686	4.9000e-004		6.2000e-003	6.2000e-003		6.2000e-003	6.2000e-003		97.9468	97.9468	1.8800e-003	1.8000e-003	98.5289
Total		0.1403	1.2758	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970		1,530.9035	1,530.9035	0.0294	0.0281	1,540.0009

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	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004		0.1713
Unmitigated	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004		0.1713

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	0.9003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	2.9655					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Landscaping	6.9500e-003	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004	0.1713
Total	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004	0.1713

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	0.9003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.9655					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.9500e-003	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004		0.1713
Total	3.8727	6.8000e-004	0.0750	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1608	0.1608	4.2000e-004		0.1713

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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	0	0	0	0	0.73	

Boilers

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

Equipment Type	Number
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11.0 Vegetation

Dignity Alternative (Mercy) - Shasta County, Winter

Dignity Alternative (Mercy)
Shasta County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	130.00	1000sqft	2.98	130,000.00	0
Parking Lot	549.00	Space	4.94	219,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	128.34	CH4 Intensity (lb/MW hr)	0.002	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy intensity modified per report

Land Use -

Construction Phase -

Off-road Equipment -

Demolition -

Vehicle Trips - Trip lengths adjusted per GHD VMT Study

Area Coating - Per GHD study

Energy Use -

Water And Wastewater - Adjusted to 2.35 MGAL and 1.50 MGAL per project-specifics

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - dust control measures

Mobile Land Use Mitigation -

Waste Mitigation - State requirement for 75 percent diversion by 2020

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - Assumed 3 x 500 hp engine, 30 minutes per testing day up to 50 hours testing per year

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	65000	64800
tblAreaCoating	Area_Nonresidential_Interior	195000	194400
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblProjectCharacteristics	CH4IntensityFactor	0	0.002
tblProjectCharacteristics	CO2IntensityFactor	0	128.34
tblProjectCharacteristics	N2OIntensityFactor	0	0.002
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	CC_TL	7.30	10.99
tblVehicleTrips	CNW_TL	7.30	10.99
tblVehicleTrips	CW_TL	9.50	14.30
tblWater	IndoorWaterUseRate	16,312,469.88	2,346,130.00
tblWater	OutdoorWaterUseRate	3,107,137.12	1,498,910.00

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					
2020	4.1557	42.4842	22.8177	0.0535	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	5,280.9042	5,280.9042	1.1967	0.0000	5,301.1300
2021	158.6001	12.9685	15.0835	0.0239	0.2218	0.6786	0.8018	0.0588	0.6243	0.6570	0.0000	2,318.9986	2,318.9986	0.7174	0.0000	2,336.9346
Maximum	158.6001	42.4842	22.8177	0.0535	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	5,280.9042	5,280.9042	1.1967	0.0000	5,301.1300

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1557	42.4842	22.8177	0.0535	7.8635	2.1985	10.0620	4.2827	2.0226	6.3053	0.0000	5,280.9042	5,280.9042	1.1967	0.0000	5,301.1300
2021	158.6001	12.9685	15.0835	0.0239	0.2102	0.6786	0.7954	0.0560	0.6243	0.6554	0.0000	2,318.9986	2,318.9986	0.7174	0.0000	2,336.9346
Maximum	158.6001	42.4842	22.8177	0.0535	7.8635	2.1985	10.0620	4.2827	2.0226	6.3053	0.0000	5,280.9042	5,280.9042	1.1967	0.0000	5,301.1300

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	56.21	0.00	48.82	56.74	0.00	44.97	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	lb/day										lb/day					
Area	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Energy	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Mobile	9.0013	79.1850	102.7249	0.4235	29.6509	0.3543	30.0052	7.9466	0.3332	8.2798		43,178.9549	43,178.9549	2.3568		43,237.8737
Stationary	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	19.3808	80.1496	120.3627	0.4286	29.6509	0.4256	30.0765	7.9466	0.4045	8.3511		44,147.5026	44,147.5026	3.2491	0.0100	44,231.7179

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	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Energy	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Mobile	8.9247	78.4462	101.2576	0.4163	29.0579	0.3479	29.4058	7.7877	0.3271	8.1148		42,442.7951	42,442.7951	2.3406		42,501.3103
Stationary	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	19.3043	79.4107	118.8954	0.4213	29.0579	0.4192	29.4770	7.7877	0.3984	8.1861		43,411.3429	43,411.3429	3.2330	0.0100	43,495.1545

	ROG	NOx	CO	SO2	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	0.39	0.92	1.22	1.69	2.00	1.51	1.99	2.00	1.50	1.98	0.00	1.67	1.67	0.50	0.00	1.67

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/11/2020	5	20	
3	Building Construction	Building Construction	2/12/2020	12/29/2020	5	230	
4	Paving	Paving	12/30/2020	1/26/2021	5	20	
5	Architectural Coating	Architectural Coating	1/27/2021	2/23/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 4.94

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 195,000; Non-Residential Outdoor: 65,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	
Site Preparation		7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading		6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction		9	134.00	57.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving		6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		1	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0793	0.0669	0.5731	1.4000e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		138.9595	138.9595	4.8800e-003		139.0816
Total	0.0793	0.0669	0.5731	1.4000e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		138.9595	138.9595	4.8800e-003		139.0816

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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.7233	2.1974	9.9207	4.2454	2.0216	6.2670	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0793	0.0669	0.5731	1.4000e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		138.9595	138.9595	4.8800e-003		139.0816
Total	0.0793	0.0669	0.5731	1.4000e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		138.9595	138.9595	4.8800e-003		139.0816

3.3 Grading - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.0661	0.0558	0.4776	1.1600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		115.7996	115.7996	4.0700e-003		115.9013

Total	0.0661	0.0558	0.4776	1.1600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		115.7996	115.7996	4.0700e-003		115.9013
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000				0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290			2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.8011	1.2734	4.0746	1.4396	1.1716	2.6112	0.0000	2,872.4851	2,872.4851	0.9290			2,895.7106

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	0.0661	0.0558	0.4776	1.1600e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		115.7996	115.7996	4.0700e-003			115.9013
Total	0.0661	0.0558	0.4776	1.1600e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		115.7996	115.7996	4.0700e-003			115.9013

3.4 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	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.2571	6.9998	1.7026	0.0162	0.3863	0.0392	0.4255	0.1112	0.0375	0.1487		1,693.3648	1,693.3648	0.1498		1,697.1105
Worker	0.5900	0.4980	4.2666	0.0104	1.1008	7.8300e-003	1.1086	0.2920	7.2200e-003	0.2992		1,034.4764	1,034.4764	0.0364		1,035.3850
Total	0.8471	7.4978	5.9692	0.0266	1.4871	0.0470	1.5341	0.4032	0.0447	0.4479		2,727.8412	2,727.8412	0.1862		2,732.4955

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.2571	6.9998	1.7026	0.0162	0.3698	0.0392	0.4090	0.1072	0.0375	0.1447		1,693.3648	1,693.3648	0.1498		1,697.1105
Worker	0.5900	0.4980	4.2666	0.0104	1.0434	7.8300e-003	1.0512	0.2779	7.2200e-003	0.2851		1,034.4764	1,034.4764	0.0364		1,035.3850
Total	0.8471	7.4978	5.9692	0.0266	1.4132	0.0470	1.4602	0.3851	0.0447	0.4298		2,727.8412	2,727.8412	0.1862		2,732.4955

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.6471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0037	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

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	0.0661	0.0558	0.4776	1.1600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		115.7996	115.7996	4.0700e-003			115.9013
Total	0.0661	0.0558	0.4776	1.1600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		115.7996	115.7996	4.0700e-003			115.9013

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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140			2,225.5841
Paving	0.6471					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.0037	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140			2,225.5841

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0661	0.0558	0.4776	1.1600e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		115.7996	115.7996	4.0700e-003		115.9013
Total	0.0661	0.0558	0.4776	1.1600e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		115.7996	115.7996	4.0700e-003		115.9013

3.5 Paving - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.6471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9027	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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	0.0610	0.0494	0.4302	1.1200e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		111.7877	111.7877	3.5800e-003		111.8773

Total	0.0610	0.0494	0.4302	1.1200e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		111.7877	111.7877	3.5800e-003		111.8773
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.6471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9027	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0610	0.0494	0.4302	1.1200e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		111.7877	111.7877	3.5800e-003		111.8773
Total	0.0610	0.0494	0.4302	1.1200e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		111.7877	111.7877	3.5800e-003		111.8773

3.6 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	lb/day										lb/day					
Archit. Coating	158.2713					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	158.4902	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.1098	0.0889	0.7744	2.0200e-003	0.2218	1.5300e-003	0.2233	0.0588	1.4100e-003	0.0602		201.2179	201.2179	6.4500e-003		201.3792
Total	0.1098	0.0889	0.7744	2.0200e-003	0.2218	1.5300e-003	0.2233	0.0588	1.4100e-003	0.0602		201.2179	201.2179	6.4500e-003		201.3792

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	158.2713					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	158.4902	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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	0.1098	0.0889	0.7744	2.0200e-003	0.2102	1.5300e-003	0.2118	0.0560	1.4100e-003	0.0574		201.2179	201.2179	6.4500e-003		201.3792
Total	0.1098	0.0889	0.7744	2.0200e-003	0.2102	1.5300e-003	0.2118	0.0560	1.4100e-003	0.0574		201.2179	201.2179	6.4500e-003		201.3792

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	8.9247	78.4462	101.2576	0.4163	29.0579	0.3479	29.4058	7.7877	0.3271	8.1148		42,442.79	42,442.795	2.3406		42,501.31
												51	1			03
Unmitigated	9.0013	79.1850	102.7249	0.4235	29.6509	0.3543	30.0052	7.9466	0.3332	8.2798		43,178.95	43,178.954	2.3568		43,237.87
												49	9			37

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	4,696.90	1,164.80	201.50	10,453,702	10,244,628
Parking Lot	0.00	0.00	0.00		
Total	4,696.90	1,164.80	201.50	10,453,702	10,244,628

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	14.30	10.99	10.99	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Parking Lot	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244

5.0 Energy Detail

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					
Natural Gas Mitigated	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Natural Gas Unmitigated	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	4647.95	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Parking Lot	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		0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	4.64795	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Parking Lot	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		0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
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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	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Unmitigated	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

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	0.8647					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4200e-003	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Total	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

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	0.8647					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4200e-003	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Total	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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	3	0.5	50	500	0.73	CNG

Boilers

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

Equipment Type	Number
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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	lb/day										lb/day					
Emergency Generator - CNG (500 - 999 HP)	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193

11.0 Vegetation

Dignity Alternative (Mercy) - Shasta County, Summer

Dignity Alternative (Mercy)
Shasta County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	130.00	1000sqft	2.98	130,000.00	0
Parking Lot	549.00	Space	4.94	219,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	128.34	CH4 Intensity (lb/MW hr)	0.002	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy intensity modified per report

Land Use -

Construction Phase -

Off-road Equipment -

Demolition -

Vehicle Trips - Trip lengths adjusted per GHD VMT Study

Area Coating - Per GHD study

Energy Use -

Water And Wastewater - Adjusted to 2.35 MGAL and 1.50 MGAL per project-specifics

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - dust control measures

Mobile Land Use Mitigation -

Waste Mitigation - State requirement for 75 percent diversion by 2020

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - Assumed 3 x 500 hp engine, 30 minutes per testing day up to 50 hours testing per year

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	65000	64800
tblAreaCoating	Area_Nonresidential_Interior	195000	194400
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblProjectCharacteristics	CH4IntensityFactor	0	0.002
tblProjectCharacteristics	CO2IntensityFactor	0	128.34
tblProjectCharacteristics	N2OIntensityFactor	0	0.002
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	CC_TL	7.30	10.99
tblVehicleTrips	CNW_TL	7.30	10.99
tblVehicleTrips	CW_TL	9.50	14.30
tblWater	IndoorWaterUseRate	16,312,469.88	2,346,130.00
tblWater	OutdoorWaterUseRate	3,107,137.12	1,498,910.00

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					
2020	4.1670	42.4733	23.3585	0.0557	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	5,497.1977	5,497.1977	1.1975	0.0000	5,517.1446
2021	158.6153	12.9605	15.1674	0.0241	0.2218	0.6786	0.8018	0.0588	0.6243	0.6570	0.0000	2,336.1286	2,336.1286	0.7180	0.0000	2,354.0794
Maximum	158.6153	42.4733	23.3585	0.0557	18.2141	2.1985	20.4126	9.9699	2.0226	11.9925	0.0000	5,497.1977	5,497.1977	1.1975	0.0000	5,517.1446

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1670	42.4733	23.3585	0.0557	7.8635	2.1985	10.0620	4.2827	2.0226	6.3053	0.0000	5,497.1977	5,497.1977	1.1975	0.0000	5,517.1446
2021	158.6153	12.9605	15.1674	0.0241	0.2102	0.6786	0.7954	0.0560	0.6243	0.6554	0.0000	2,336.1286	2,336.1286	0.7180	0.0000	2,354.0794
Maximum	158.6153	42.4733	23.3585	0.0557	7.8635	2.1985	10.0620	4.2827	2.0226	6.3053	0.0000	5,497.1977	5,497.1977	1.1975	0.0000	5,517.1446

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	56.21	0.00	48.82	56.74	0.00	44.97	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	lb/day										lb/day					
Area	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Energy	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Mobile	12.0102	76.7915	112.6086	0.4645	29.6509	0.3520	30.0029	7.9466	0.3310	8.2776		47,305.6895	47,305.6895	2.2481		47,361.8907
Stationary	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	22.3898	77.7560	130.2464	0.4695	29.6509	0.4233	30.0742	7.9466	0.4023	8.3489		48,274.2373	48,274.2373	3.1404	0.0100	48,355.7349

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	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Energy	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Mobile	11.9297	76.1227	110.7481	0.4566	29.0579	0.3456	29.4035	7.7877	0.3249	8.1126		46,504.6071	46,504.6071	2.2297		46,560.3491
Stationary	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	22.3093	77.0873	128.3859	0.4616	29.0579	0.4169	29.4748	7.7877	0.3962	8.1839		47,473.1549	47,473.1549	3.1220	0.0100	47,554.1933

	ROG	NOx	CO	SO2	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	0.36	0.86	1.43	1.68	2.00	1.52	1.99	2.00	1.51	1.98	0.00	1.66	1.66	0.58	0.00	1.66

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/11/2020	5	20	
3	Building Construction	Building Construction	2/12/2020	12/29/2020	5	230	
4	Paving	Paving	12/30/2020	1/26/2021	5	20	
5	Architectural Coating	Architectural Coating	1/27/2021	2/23/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 4.94

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 195,000; Non-Residential Outdoor: 65,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	
Site Preparation		7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading		6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction		9	134.00	57.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving		6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		1	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0905	0.0560	0.6816	1.6100e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		160.2562	160.2562	5.6800e-003		160.3982
Total	0.0905	0.0560	0.6816	1.6100e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		160.2562	160.2562	5.6800e-003		160.3982

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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.7233	2.1974	9.9207	4.2454	2.0216	6.2670	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0905	0.0560	0.6816	1.6100e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		160.2562	160.2562	5.6800e-003		160.3982
Total	0.0905	0.0560	0.6816	1.6100e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		160.2562	160.2562	5.6800e-003		160.3982

3.3 Grading - 2020

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.0754	0.0467	0.5680	1.3400e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		133.5469	133.5469	4.7300e-003		133.6652

Total	0.0754	0.0467	0.5680	1.3400e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		133.5469	133.5469	4.7300e-003		133.6652
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000				0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290			2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.8011	1.2734	4.0746	1.4396	1.1716	2.6112	0.0000	2,872.4851	2,872.4851	0.9290			2,895.7106

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	0.0754	0.0467	0.5680	1.3400e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		133.5469	133.5469	4.7300e-003			133.6652
Total	0.0754	0.0467	0.5680	1.3400e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		133.5469	133.5469	4.7300e-003			133.6652

3.4 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	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.2449	6.8725	1.4356	0.0168	0.3863	0.0383	0.4246	0.1112	0.0366	0.1478		1,751.1159	1,751.1159	0.1328		1,754.4347
Worker	0.6735	0.4168	5.0744	0.0120	1.1008	7.8300e-003	1.1086	0.2920	7.2200e-003	0.2992		1,193.0187	1,193.0187	0.0423		1,194.0754
Total	0.9185	7.2892	6.5100	0.0287	1.4871	0.0461	1.5332	0.4032	0.0438	0.4470		2,944.1346	2,944.1346	0.1750		2,948.5101

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.2449	6.8725	1.4356	0.0168	0.3698	0.0383	0.4081	0.1072	0.0366	0.1438		1,751.1159	1,751.1159	0.1328		1,754.4347
Worker	0.6735	0.4168	5.0744	0.0120	1.0434	7.8300e-003	1.0512	0.2779	7.2200e-003	0.2851		1,193.0187	1,193.0187	0.0423		1,194.0754
Total	0.9185	7.2892	6.5100	0.0287	1.4132	0.0461	1.4593	0.3851	0.0438	0.4289		2,944.1346	2,944.1346	0.1750		2,948.5101

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.6471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0037	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

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	0.0754	0.0467	0.5680	1.3400e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		133.5469	133.5469	4.7300e-003		133.6652
Total	0.0754	0.0467	0.5680	1.3400e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		133.5469	133.5469	4.7300e-003		133.6652

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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.6471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.0037	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0754	0.0467	0.5680	1.3400e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		133.5469	133.5469	4.7300e-003		133.6652
Total	0.0754	0.0467	0.5680	1.3400e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		133.5469	133.5469	4.7300e-003		133.6652

3.5 Paving - 2021

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.6471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9027	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	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	0.0695	0.0414	0.5142	1.3000e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		128.9178	128.9178	4.1700e-003		129.0221

Total	0.0695	0.0414	0.5142	1.3000e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		128.9178	128.9178	4.1700e-003		129.0221
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.6471					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9027	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0695	0.0414	0.5142	1.3000e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		128.9178	128.9178	4.1700e-003		129.0221
Total	0.0695	0.0414	0.5142	1.3000e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		128.9178	128.9178	4.1700e-003		129.0221

3.6 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	lb/day										lb/day					
Archit. Coating	158.2713						0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003			0.0941	0.0941	0.0941	0.0941			281.4481	281.4481	0.0193	281.9309
Total	158.4902	1.5268	1.8176	2.9700e-003			0.0941	0.0941		0.0941			281.4481	281.4481	0.0193	281.9309

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
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
Worker	0.1251	0.0745	0.9255	2.3300e-003	0.2218	1.5300e-003	0.2233	0.0588	1.4100e-003	0.0602			232.0520	232.0520	7.5100e-003	232.2398
Total	0.1251	0.0745	0.9255	2.3300e-003	0.2218	1.5300e-003	0.2233	0.0588	1.4100e-003	0.0602			232.0520	232.0520	7.5100e-003	232.2398

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	158.2713					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	158.4902	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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	0.1251	0.0745	0.9255	2.3300e-003	0.2102	1.5300e-003	0.2118	0.0560	1.4100e-003	0.0574		232.0520	232.0520	7.5100e-003		232.2398
Total	0.1251	0.0745	0.9255	2.3300e-003	0.2102	1.5300e-003	0.2118	0.0560	1.4100e-003	0.0574		232.0520	232.0520	7.5100e-003		232.2398

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	11.9297	76.1227	110.7481	0.4566	29.0579	0.3456	29.4035	7.7877	0.3249	8.1126		46,504.60	46,504.607	2.2297		46,560.34
												71	1			91
Unmitigated	12.0102	76.7915	112.6086	0.4645	29.6509	0.3520	30.0029	7.9466	0.3310	8.2776		47,305.68	47,305.689	2.2481		47,361.89
												95	5			07

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	4,696.90	1,164.80	201.50	10,453,702	10,244,628
Parking Lot	0.00	0.00	0.00		
Total	4,696.90	1,164.80	201.50	10,453,702	10,244,628

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	14.30	10.99	10.99	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Parking Lot	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244

5.0 Energy Detail

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					
Natural Gas Mitigated	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Natural Gas Unmitigated	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	4647.95	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Parking Lot	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		0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Medical Office Building	4.64795	0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
Parking Lot	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		0.0501	0.4557	0.3828	2.7300e-003		0.0346	0.0346		0.0346	0.0346		546.8171	546.8171	0.0105	0.0100	550.0665
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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	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Unmitigated	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

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	0.8647					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4200e-003	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Total	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

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	0.8647					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.4200e-003	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583
Total	3.7309	6.3000e-004	0.0693	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		0.1486	0.1486	3.9000e-004		0.1583

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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	3	0.5	50	500	0.73	CNG

Boilers

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

Equipment Type	Number
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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	lb/day										lb/day					
Emergency Generator - CNG (500 - 999 HP)	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193
Total	6.5985	0.5082	17.1857	2.3000e-003		0.0364	0.0364		0.0364	0.0364		421.5821	421.5821	0.8815		443.6193

11.0 Vegetation

Dignity - Reduced Intensity Alternative - Shasta County, Winter

**Dignity - Reduced Intensity Alternative
Shasta County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	109.60	1000sqft	2.52	109,600.00	0
Parking Lot	409.00	Space	3.68	163,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	128.34	CH4 Intensity (lb/MW hr)	0.002	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy Intensity Modified per Report

Land Use - Reduced Intensity Alternative

Construction Phase -

Off-road Equipment -

Demolition - 6,129 tons of bldg and pavement removal

Grading -

Architectural Coating -

Vehicle Trips - Trip lengths per GHD VMT study

Area Coating -

Energy Use -

Water And Wastewater - Adjusted to 2.35 MGAL and 1.50 MGAL per project-specifics

Sequestration -

Construction Off-road Equipment Mitigation - Dust control

Mobile Land Use Mitigation - 0.83 mile to Priority Development Area. 1.5 miles to Downtown Transfer Station. Improved Ped network.

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation - Exceed 2016 Title 24 requirements by 15 percent.

Waste Mitigation - State requirement for 75 percent diversion by 2020

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - Assumed 3 x 500 hp engine, 30 minutes per testing day up to 50 hours testing per year

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblProjectCharacteristics	CH4IntensityFactor	0	0.002
tblProjectCharacteristics	CO2IntensityFactor	0	128.34
tblProjectCharacteristics	N2OIntensityFactor	0	0.002
tblSequestration	NumberOfNewTrees	0.00	5.00
tblSequestration	NumberOfNewTrees	0.00	111.00
tblSequestration	NumberOfNewTrees	0.00	15.00
tblSequestration	NumberOfNewTrees	0.00	26.00
tblSequestration	NumberOfNewTrees	0.00	11.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	CC_TL	7.30	11.42
tblVehicleTrips	CNW_TL	7.30	11.42
tblVehicleTrips	CW_TL	9.50	14.86

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	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209
Energy	0.0423	0.3842	0.3227	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.0089	461.0089	8.8400e-003	8.4500e-003	463.7484
Mobile	7.7149	67.9766	89.0229	0.3690	25.9752	0.3093	26.2845	6.9615	0.2909	7.2524		37,616.2276	37,616.2276	2.0135		37,666.5659
Stationary	1.2308	3.4400	3.1383	5.9100e-003		0.1811	0.1811		0.1811	0.1811		629.6356	629.6356	0.0883		631.8425
Total	12.1233	71.8013	92.5368	0.3772	25.9752	0.5197	26.4949	6.9615	0.5013	7.4628		38,706.9855	38,706.9855	2.1109	8.4500e-003	38,762.2777

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	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209
Energy	0.0361	0.3278	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249		393.3412	393.3412	7.5400e-003	7.2100e-003	395.6787
Mobile	6.9052	60.1623	73.5044	0.2924	19.7034	0.2413	19.9447	5.2806	0.2268	5.5075		29,830.6106	29,830.6106	1.8428		29,876.6796
Stationary	1.2308	3.4400	3.1383	5.9100e-003		0.1811	0.1811		0.1811	0.1811		629.6356	629.6356	0.0883		631.8425
Total	11.3074	63.9306	76.9709	0.3003	19.7034	0.4474	20.1508	5.2806	0.4330	5.7136		30,853.7009	30,853.7009	1.9389	7.2100e-003	30,904.3217

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Percent Reduction	6.73	10.96	16.82	20.39	24.15	13.92	23.94	24.15	13.63	23.44	0.00	20.29	20.29	8.15	14.67	20.27
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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	1/1/2020	1/28/2020	5	20	
2	Site Preparation	Site Preparation	1/29/2020	2/11/2020	5	10	
3	Grading	Grading	2/12/2020	3/10/2020	5	20	
4	Building Construction	Building Construction	3/11/2020	1/26/2021	5	230	
5	Paving	Paving	1/27/2021	2/23/2021	5	20	
6	Architectural Coating	Architectural Coating	2/24/2021	3/23/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 3.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 164,400; Non-Residential Outdoor: 54,800; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	606.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	104.00	45.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6604	0.0000	6.6604	1.0085	0.0000	1.0085			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	6.6604	1.6587	8.3191	1.0085	1.5419	2.5504		3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.2468	8.5772	1.3015	0.0241	0.5307	0.0334	0.5640	0.1455	0.0319	0.1774		2,528.6438	2,528.6438	0.1519		2,532.4422
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	0.0661	0.0558	0.4776	1.1600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		115.7996	115.7996	4.0700e-003		115.9013
Total	0.3128	8.6329	1.7791	0.0253	0.6539	0.0342	0.6881	0.1782	0.0327	0.2109		2,644.4434	2,644.4434	0.1560		2,648.3435

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					2.8473	0.0000	2.8473	0.4312	0.0000	0.4312			0.0000			0.0000

Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	2.8473	1.6587	4.5060	0.4312	1.5419	1.9730	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.2468	8.5772	1.3015	0.0241	0.5067	0.0334	0.5400	0.1396	0.0319	0.1715		2,528.6438	2,528.6438	0.1519		2,532.4422
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	0.0661	0.0558	0.4776	1.1600e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		115.7996	115.7996	4.0700e-003		115.9013
Total	0.3128	8.6329	1.7791	0.0253	0.6235	0.0342	0.6577	0.1707	0.0327	0.2035		2,644.4434	2,644.4434	0.1560		2,648.3435

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0793	0.0669	0.5731	1.4000e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		138.9595	138.9595	4.8800e-003		139.0816
Total	0.0793	0.0669	0.5731	1.4000e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		138.9595	138.9595	4.8800e-003		139.0816

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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.7233	2.1974	9.9207	4.2454	2.0216	6.2670	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0793	0.0669	0.5731	1.4000e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		138.9595	138.9595	4.8800e-003		139.0816
Total	0.0793	0.0669	0.5731	1.4000e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		138.9595	138.9595	4.8800e-003		139.0816

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.0661	0.0558	0.4776	1.1600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		115.7996	115.7996	4.0700e-003		115.9013
Total	0.0661	0.0558	0.4776	1.1600e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		115.7996	115.7996	4.0700e-003		115.9013

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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.8011	1.2734	4.0746	1.4396	1.1716	2.6112	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.0661	0.0558	0.4776	1.1600e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		115.7996	115.7996	4.0700e-003		115.9013
Total	0.0661	0.0558	0.4776	1.1600e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		115.7996	115.7996	4.0700e-003		115.9013

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	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.2030	5.5262	1.3442	0.0128	0.3050	0.0309	0.3359	0.0878	0.0296	0.1174		1,336.8670	1,336.8670	0.1183		1,339.8241
Worker	0.4579	0.3865	3.3114	8.0700e-003	0.8543	6.0800e-003	0.8604	0.2266	5.6000e-003	0.2322		802.8772	802.8772	0.0282		803.5824
Total	0.6609	5.9127	4.6555	0.0209	1.1593	0.0370	1.1963	0.3144	0.0352	0.3496		2,139.7442	2,139.7442	0.1465		2,143.4065

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.2030	5.5262	1.3442	0.0128	0.2919	0.0309	0.3229	0.0846	0.0296	0.1142		1,336.8670	1,336.8670	0.1183		1,339.8241
Worker	0.4579	0.3865	3.3114	8.0700e-003	0.8098	6.0800e-003	0.8159	0.2157	5.6000e-003	0.2213		802.8772	802.8772	0.0282		803.5824
Total	0.6609	5.9127	4.6555	0.0209	1.1017	0.0370	1.1387	0.3003	0.0352	0.3355		2,139.7442	2,139.7442	0.1465		2,143.4065

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	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.1696	5.0308	1.1851	0.0127	0.3050	0.0159	0.3208	0.0878	0.0152	0.1030		1,325.4528	1,325.4528	0.1142		1,328.3076
Worker	0.4230	0.3424	2.9829	7.7900e-003	0.8543	5.8900e-003	0.8602	0.2266	5.4300e-003	0.2320		775.0617	775.0617	0.0249		775.6829
Total	0.5925	5.3732	4.1680	0.0205	1.1593	0.0218	1.1811	0.3144	0.0206	0.3350		2,100.5145	2,100.5145	0.1390		2,103.9905

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0000	0.0000
Vendor	0.1696	5.0308	1.1851	0.0127	0.2920	0.0159	0.3078	0.0846	0.0152	0.0998		1,325.4528	1,325.4528	0.1142		1,328.3076
Worker	0.4230	0.3424	2.9829	7.7900e-003	0.8098	5.8900e-003	0.8157	0.2157	5.4300e-003	0.2211		775.0617	775.0617	0.0249		775.6829
Total	0.5925	5.3732	4.1680	0.0205	1.1017	0.0218	1.1235	0.3003	0.0206	0.3209		2,100.5145	2,100.5145	0.1390		2,103.9905

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	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7376	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0610	0.0494	0.4302	1.1200e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		111.7877	111.7877	3.5800e-003		111.8773
Total	0.0610	0.0494	0.4302	1.1200e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		111.7877	111.7877	3.5800e-003		111.8773

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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7376	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0610	0.0494	0.4302	1.1200e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		111.7877	111.7877	3.5800e-003		111.8773
Total	0.0610	0.0494	0.4302	1.1200e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		111.7877	111.7877	3.5800e-003		111.8773

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	lb/day										lb/day					
Archit. Coating	132.6862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	132.9051	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.0854	0.0691	0.6023	1.5700e-003	0.1725	1.1900e-003	0.1737	0.0458	1.1000e-003	0.0469		156.5028	156.5028	5.0200e-003		156.6283
Total	0.0854	0.0691	0.6023	1.5700e-003	0.1725	1.1900e-003	0.1737	0.0458	1.1000e-003	0.0469		156.5028	156.5028	5.0200e-003		156.6283

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	132.6862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	132.9051	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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	0.0854	0.0691	0.6023	1.5700e-003	0.1635	1.1900e-003	0.1647	0.0436	1.1000e-003	0.0447		156.5028	156.5028	5.0200e-003		156.6283
Total	0.0854	0.0691	0.6023	1.5700e-003	0.1635	1.1900e-003	0.1647	0.0436	1.1000e-003	0.0447		156.5028	156.5028	5.0200e-003		156.6283

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
Mitigated	6.9052	60.1623	73.5044	0.2924	19.7034	0.2413	19.9447	5.2806	0.2268	5.5075	29,830.6106	29,830.6106	1.8428	29,876.6796
Unmitigated	7.7149	67.9766	89.0229	0.3690	25.9752	0.3093	26.2845	6.9615	0.2909	7.2524	37,616.2276	37,616.2276	2.0135	37,666.5659

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	3,959.85	982.02	169.88	9,157,788	6,946,623
Parking Lot	0.00	0.00	0.00		
Total	3,959.85	982.02	169.88	9,157,788	6,946,623

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	14.86	11.42	11.42	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Parking Lot	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	0.0361	0.3278	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249		393.3412	393.3412	7.5400e-003	7.2100e-003	395.6787
NaturalGas Unmitigated	0.0423	0.3842	0.3227	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.0089	461.0089	8.8400e-003	8.4500e-003	463.7484

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					
Medical Office Building	3918.58	0.0423	0.3842	0.3227	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.0089	461.0089	8.8400e-003	8.4500e-003	463.7484
Parking Lot	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		0.0423	0.3842	0.3227	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.0089	461.0089	8.8400e-003	8.4500e-003	463.7484

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					
Medical Office Building	3.3434	0.0361	0.3278	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249		393.3412	393.3412	7.5400e-003	7.2100e-003	395.6787

Parking Lot	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	
Total		0.0361	0.3278	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249		393.3412	393.3412	7.5400e-003	7.2100e-003	395.6787

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	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209
Unmitigated	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209

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	0.7271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9000e-003	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209

Total	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209
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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	0.7271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9000e-003	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209
Total	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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	3	0.5	50	500	0.73	Diesel

Boilers

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

Equipment Type	Number
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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	lb/day										lb/day					
Emergency Generator - Diesel (200,000 HP)	1.2308	3.4400	3.1383	5.9100e-003		0.1811	0.1811		0.1811	0.1811		629.6356	629.6356	0.0883		631.8425
Total	1.2308	3.4400	3.1383	5.9100e-003		0.1811	0.1811		0.1811	0.1811		629.6356	629.6356	0.0883		631.8425

11.0 Vegetation

Dignity - Reduced Intensity Alternative - Shasta County, Summer

**Dignity - Reduced Intensity Alternative
Shasta County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	109.60	1000sqft	2.52	109,600.00	0
Parking Lot	409.00	Space	3.68	163,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	82
Climate Zone	3			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	128.34	CH4 Intensity (lb/MW hr)	0.002	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Energy Intensity Modified per Report

Land Use - Reduced Intensity Alternative

Construction Phase -

Off-road Equipment -

Demolition - 6,129 tons of bldg and pavement removal

Grading -

Architectural Coating -

Vehicle Trips - Trip lengths per GHD VMT study

Area Coating -

Energy Use -

Water And Wastewater - Adjusted to 2.35 MGAL and 1.50 MGAL per project-specifics

Sequestration -

Construction Off-road Equipment Mitigation - Dust control

Mobile Land Use Mitigation - 0.83 mile to Priority Development Area. 1.5 miles to Downtown Transfer Station. Improved Ped network.

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation - Exceed 2016 Title 24 requirements by 15 percent.

Waste Mitigation - State requirement for 75 percent diversion by 2020

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generators and Fire Pumps - Assumed 3 x 500 hp engine, 30 minutes per testing day up to 50 hours testing per year

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblProjectCharacteristics	CH4IntensityFactor	0	0.002
tblProjectCharacteristics	CO2IntensityFactor	0	128.34
tblProjectCharacteristics	N2OIntensityFactor	0	0.002
tblSequestration	NumberOfNewTrees	0.00	5.00
tblSequestration	NumberOfNewTrees	0.00	111.00
tblSequestration	NumberOfNewTrees	0.00	15.00
tblSequestration	NumberOfNewTrees	0.00	26.00
tblSequestration	NumberOfNewTrees	0.00	11.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	500.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	CC_TL	7.30	11.42
tblVehicleTrips	CNW_TL	7.30	11.42
tblVehicleTrips	CW_TL	9.50	14.86

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	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209
Energy	0.0423	0.3842	0.3227	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.0089	461.0089	8.8400e-003	8.4500e-003	463.7484
Mobile	10.2582	65.8432	98.0034	0.4046	25.9752	0.3074	26.2826	6.9615	0.2890	7.2506		41,202.3622	41,202.3622	1.9255		41,250.5008
Stationary	1.2308	3.4400	3.1383	5.9100e-003		0.1811	0.1811		0.1811	0.1811		629.6356	629.6356	0.0883		631.8425
Total	14.6666	69.6678	101.5173	0.4128	25.9752	0.5178	26.4930	6.9615	0.4995	7.4610		42,293.1202	42,293.1202	2.0230	8.4500e-003	42,346.2126

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	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209
Energy	0.0361	0.3278	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249		393.3412	393.3412	7.5400e-003	7.2100e-003	395.6787
Mobile	9.4067	58.7702	78.3271	0.3211	19.7034	0.2394	19.9428	5.2806	0.2250	5.5056		32,730.1237	32,730.1237	1.7313		32,773.4059
Stationary	1.2308	3.4400	3.1383	5.9100e-003		0.1811	0.1811		0.1811	0.1811		629.6356	629.6356	0.0883		631.8425
Total	13.8089	62.5385	81.7937	0.3290	19.7034	0.4455	20.1489	5.2806	0.4311	5.7118		33,753.2140	33,753.2140	1.8274	7.2100e-003	33,801.0480

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Percent Reduction	5.85	10.23	19.43	20.31	24.15	13.97	23.95	24.15	13.68	23.44	0.00	20.19	20.19	9.67	14.67	20.18
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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	1/1/2020	1/28/2020	5	20	
2	Site Preparation	Site Preparation	1/29/2020	2/11/2020	5	10	
3	Grading	Grading	2/12/2020	3/10/2020	5	20	
4	Building Construction	Building Construction	3/11/2020	1/26/2021	5	230	
5	Paving	Paving	1/27/2021	2/23/2021	5	20	
6	Architectural Coating	Architectural Coating	2/24/2021	3/23/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 3.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 164,400; Non-Residential Outdoor: 54,800; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	606.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	104.00	45.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6604	0.0000	6.6604	1.0085	0.0000	1.0085			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	6.6604	1.6587	8.3191	1.0085	1.5419	2.5504		3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.2380	8.3123	1.1412	0.0247	0.5307	0.0326	0.5633	0.1455	0.0311	0.1767		2,588.6422	2,588.6422	0.1344		2,592.0022
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	0.0754	0.0467	0.5680	1.3400e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		133.5469	133.5469	4.7300e-003		133.6652
Total	0.3134	8.3589	1.7092	0.0260	0.6539	0.0334	0.6874	0.1782	0.0320	0.2102		2,722.1890	2,722.1890	0.1391		2,725.6674

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					2.8473	0.0000	2.8473	0.4312	0.0000	0.4312			0.0000			0.0000

Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	2.8473	1.6587	4.5060	0.4312	1.5419	1.9730	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

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	0.2380	8.3123	1.1412	0.0247	0.5067	0.0326	0.5392	0.1396	0.0311	0.1708		2,588.6422	2,588.6422	0.1344		2,592.0022
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	0.0754	0.0467	0.5680	1.3400e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		133.5469	133.5469	4.7300e-003		133.6652
Total	0.3134	8.3589	1.7092	0.0260	0.6235	0.0334	0.6569	0.1707	0.0320	0.2027		2,722.1890	2,722.1890	0.1391		2,725.6674

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0905	0.0560	0.6816	1.6100e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		160.2562	160.2562	5.6800e-003		160.3982
Total	0.0905	0.0560	0.6816	1.6100e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		160.2562	160.2562	5.6800e-003		160.3982

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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	7.7233	2.1974	9.9207	4.2454	2.0216	6.2670	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0905	0.0560	0.6816	1.6100e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		160.2562	160.2562	5.6800e-003		160.3982
Total	0.0905	0.0560	0.6816	1.6100e-003	0.1402	1.0500e-003	0.1412	0.0373	9.7000e-004	0.0383		160.2562	160.2562	5.6800e-003		160.3982

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.0754	0.0467	0.5680	1.3400e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		133.5469	133.5469	4.7300e-003		133.6652
Total	0.0754	0.0467	0.5680	1.3400e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		133.5469	133.5469	4.7300e-003		133.6652

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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	2.8011	1.2734	4.0746	1.4396	1.1716	2.6112	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

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	0.0754	0.0467	0.5680	1.3400e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		133.5469	133.5469	4.7300e-003		133.6652
Total	0.0754	0.0467	0.5680	1.3400e-003	0.1168	8.8000e-004	0.1177	0.0311	8.1000e-004	0.0319		133.5469	133.5469	4.7300e-003		133.6652

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	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

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	0.1934	5.4256	1.1334	0.0132	0.3050	0.0302	0.3352	0.0878	0.0289	0.1167		1,382.4600	1,382.4600	0.1048		1,385.0800
Worker	0.5228	0.3235	3.9383	9.3100e-003	0.8543	6.0800e-003	0.8604	0.2266	5.6000e-003	0.2322		925.9249	925.9249	0.0328		926.7451
Total	0.7161	5.7491	5.0717	0.0225	1.1593	0.0363	1.1956	0.3144	0.0345	0.3489		2,308.3849	2,308.3849	0.1376		2,311.8251

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1934	5.4256	1.1334	0.0132	0.2919	0.0302	0.3222	0.0846	0.0289	0.1135		1,382.4600	1,382.4600	0.1048		1,385.0800
Worker	0.5228	0.3235	3.9383	9.3100e-003	0.8098	6.0800e-003	0.8159	0.2157	5.6000e-003	0.2213		925.9249	925.9249	0.0328		926.7451
Total	0.7161	5.7491	5.0717	0.0225	1.1017	0.0363	1.1380	0.3003	0.0345	0.3348		2,308.3849	2,308.3849	0.1376		2,311.8251

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	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.1605	4.9569	0.9883	0.0131	0.3050	0.0152	0.3202	0.0878	0.0146	0.1024		1,370.9480	1,370.9480	0.1009		1,373.4705
Worker	0.4817	0.2868	3.5650	8.9800e-003	0.8543	5.8900e-003	0.8602	0.2266	5.4300e-003	0.2320		893.8298	893.8298	0.0289		894.5533
Total	0.6422	5.2436	4.5533	0.0221	1.1593	0.0211	1.1804	0.3144	0.0200	0.3344		2,264.7778	2,264.7778	0.1298		2,268.0238

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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	0.0000	0.0000
Vendor	0.1605	4.9569	0.9883	0.0131	0.2920	0.0152	0.3072	0.0846	0.0146	0.0992		1,370.9480	1,370.9480	0.1009		1,373.4705
Worker	0.4817	0.2868	3.5650	8.9800e-003	0.8098	5.8900e-003	0.8157	0.2157	5.4300e-003	0.2211		893.8298	893.8298	0.0289		894.5533
Total	0.6422	5.2436	4.5533	0.0221	1.1017	0.0211	1.1229	0.3003	0.0200	0.3203		2,264.7778	2,264.7778	0.1298		2,268.0238

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	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7376	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0695	0.0414	0.5142	1.3000e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		128.9178	128.9178	4.1700e-003		129.0221
Total	0.0695	0.0414	0.5142	1.3000e-003	0.1232	8.5000e-004	0.1241	0.0327	7.8000e-004	0.0335		128.9178	128.9178	4.1700e-003		129.0221

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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.4821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7376	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0695	0.0414	0.5142	1.3000e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		128.9178	128.9178	4.1700e-003		129.0221
Total	0.0695	0.0414	0.5142	1.3000e-003	0.1168	8.5000e-004	0.1177	0.0311	7.8000e-004	0.0319		128.9178	128.9178	4.1700e-003		129.0221

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	lb/day										lb/day					
Archit. Coating	132.6862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	132.9051	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.0973	0.0579	0.7199	1.8100e-003	0.1725	1.1900e-003	0.1737	0.0458	1.1000e-003	0.0469		180.4849	180.4849	5.8400e-003		180.6310
Total	0.0973	0.0579	0.7199	1.8100e-003	0.1725	1.1900e-003	0.1737	0.0458	1.1000e-003	0.0469		180.4849	180.4849	5.8400e-003		180.6310

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	132.6862					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	132.9051	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

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	0.0973	0.0579	0.7199	1.8100e-003	0.1635	1.1900e-003	0.1647	0.0436	1.1000e-003	0.0447		180.4849	180.4849	5.8400e-003		180.6310
Total	0.0973	0.0579	0.7199	1.8100e-003	0.1635	1.1900e-003	0.1647	0.0436	1.1000e-003	0.0447		180.4849	180.4849	5.8400e-003		180.6310

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

- Improve Destination Accessibility
- Increase Transit Accessibility
- Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
	9.4067	58.7702	78.3271	0.3211	19.7034	0.2394	19.9428	5.2806	0.2250	5.5056	32,730.12	32,730.123	1.7313	32,773.40
Mitigated											37	7		59
Unmitigated	10.2582	65.8432	98.0034	0.4046	25.9752	0.3074	26.2826	6.9615	0.2890	7.2506	41,202.36	41,202.362	1.9255	41,250.50
											22	2		08

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	3,959.85	982.02	169.88	9,157,788	6,946,623
Parking Lot	0.00	0.00	0.00		
Total	3,959.85	982.02	169.88	9,157,788	6,946,623

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	14.86	11.42	11.42	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244
Parking Lot	0.531326	0.031853	0.180854	0.102256	0.028681	0.006074	0.012848	0.095604	0.001329	0.001212	0.005444	0.001276	0.001244

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	0.0361	0.3278	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249		393.3412	393.3412	7.5400e-003	7.2100e-003	395.6787
NaturalGas Unmitigated	0.0423	0.3842	0.3227	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.0089	461.0089	8.8400e-003	8.4500e-003	463.7484

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					
Medical Office Building	3918.58	0.0423	0.3842	0.3227	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.0089	461.0089	8.8400e-003	8.4500e-003	463.7484
Parking Lot	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		0.0423	0.3842	0.3227	2.3100e-003		0.0292	0.0292		0.0292	0.0292		461.0089	461.0089	8.8400e-003	8.4500e-003	463.7484

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					
Medical Office Building	3.3434	0.0361	0.3278	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249		393.3412	393.3412	7.5400e-003	7.2100e-003	395.6787

Parking Lot	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	
Total		0.0361	0.3278	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249		393.3412	393.3412	7.5400e-003	7.2100e-003	395.6787

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	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209
Unmitigated	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209

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	0.7271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9000e-003	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209

Total	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209
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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	0.7271					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.9000e-003	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209
Total	3.1353	4.8000e-004	0.0529	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1135	0.1135	3.0000e-004		0.1209

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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	3	0.5	50	500	0.73	Diesel

Boilers

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

Equipment Type	Number
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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	lb/day										lb/day					
Emergency Generator - Diesel (200,000 HP)	1.2308	3.4400	3.1383	5.9100e-003		0.1811	0.1811		0.1811	0.1811		629.6356	629.6356	0.0883		631.8425
Total	1.2308	3.4400	3.1383	5.9100e-003		0.1811	0.1811		0.1811	0.1811		629.6356	629.6356	0.0883		631.8425

11.0 Vegetation
